CCTV Twisted Pair Transmission
Passive Series (Single Channel, 4 Channel, Multi-Channel Panel and Rack Mounting) .................. 1
Active Series (Single Channel, 4 Channel, Multi-Channel Panel and Rack Mounting) .................. 7
Video & High power UTP cabling solution ....................................................................................... 11
IP Cabling Transmission
IP Extender (over coax, CAT5 cable), Lan Repeater ..................................................................... 12
PoE Repeater/Injector/Splitter ........................................................................................................ 13
IP/POE Surge Protector .................................................................................................................. 15
HD SDI (HD CCTV) Transmission
HD-SDI Repeater & Converter ..................................................................................................... 16
HDMI Transmission
HDMI CAT5 Extender & Distributor ................................................................................................ 17
HDMI Distribution Amplifier, Switcher, Repeater, Converter ......................................................... 19
VGA Transmission
CAT5 USB, VGA, Keyboard Mouse Extender .................................................................................. 21
CAT5 VGA, Audio and Rack Card Solution Distribution Amplifier ............................................... 24
VGA Converter .................................................................................................................................. 27
DVI Transmission
DVI CAT5 Extender ....................................................................................................................... 28
DVI Distribution Amplifier, Switcher, Repeater, Converter ........................................................... 29
Video & Audio Transmission
CCTV Video, Audio Distribution Amplifier .................................................................................... 31
AV CAT5 Extender and Distribution Amplifier ................................................................................ 35
Component Video & Audio Transmission
Component Video Audio CAT5 Extender ........................................................................................ 38
Component Video Distribution Amplifier, Matrix Switcher ........................................................... 40
Wall Plate CAT5 Extender
AV, Component Video, VGA, HDMI .............................................................................................. 41
Converter
AV, Component Video Audio, VGA, HDMI ..................................................................................... 46
Data Transmission
PTZ Receiver, RS232/485/422 Data Converter, Repeater, Extender ............................................ 48
RS485 Distributor ............................................................................................................................. 50
Surge Protector
Video, Power, Data, Network, PoE ................................................................................................... 51
Solution Provider for Video Interference
Video Ground Loop Isolator ............................................................................................................. 54
Video Transformer Filter ................................................................................................................. 55
High Frequency Interference Blocker ............................................................................................. 55
Power Center
Power Converter & Distributor Box ................................................................................................. 56
Rack Panel Mounting and Wall Mounting ....................................................................................... 57
Accessories
Wire (Cable), Tool, Parts, Connectors ............................................................................................ 59
INDEX .................................................................................................................................................. 63
Smart twisted pair transmission products are designed for CCTV signal transmission over unshielded twisted pair wire (CAT5 network cable.)

**Passive Series**
Passive Video Transceiver (no power required), transmission range color 400 meters, B/W 600 meters via CAT5 UTP Cable.

**Single Channel**

**STP111VM**
TWISTED PAIR TRANSMISSION screw terminal
- Using CAT5 networking cable to transmit color video signal up to 300 meters; B/W up to 600 meters.
- Fast, easy installation, saving time and money

**STP111VMT**
Economical type Video Transceiver with Pigtail
- BNC male to pin terminal block.
- With mini coaxial cable for easy connection

**STP111V**
Video Transceiver BNC Male To RJ-45 Female
- BNC male to RJ45 female.

**STP111VT**
Video Transceiver BNC Male To Terminal Block
- BNC male to 2 pin terminal block.
- *STP111VF Video Transceiver F male To Terminal Block.*

**STP111VTS**
Video Transceiver Built in Surge Protector
- Identical to STP111VT, built in surge protection.

**STP111VCT**
Video Transceiver With 18cm Retractable Cord
- Weatherproof IP65.
- Perfect for camera with pan-tilt turning device.

**STP111VL**
Video Transceiver With 25cm Mini Coax Cable
- Weatherproof IP65.
- Compact size and pigtail could be mounted multi units behind DVR.

**STP111VLM**
Video Transceiver With Extra Interference Rejection
- Identical to STP111VL, but built in a highly balanced mode of video transmission, which is immune to interference from these, and other sources of noise: Data signals, other video signals, nearby power, ringing telephones, fluorescent lights, transformers, and more...
- Perfect work with DVR to immunity DVR interference.
**STP111VP**
Video & Power Transceiver (2 Pairs Version)
- BNC Male To RJ45 Female With Power Cord.
- Use with STP111VPJ, transmit video & power over one CAT5 cable.
- Use with SDP414VP for power transmission 4 cameras from remote site.

**STP111VP3**
Video & Power Transceiver (3 Pairs Version)
- Identical to STP111VP, but remote power go through via “3 pairs” instead of “2 pairs” for longer range.
- For AC24V camera use, the power sources from SPP016VPD hub for professional CCTV Industry Installation. (Please Ref. to page 6)

**STP111VPC**
Video & Power Transceiver Built in AC to DC12V Power Converter
- Built in AC to DC12V regulated power converter, 1000mA max.
- Built in switch to set unit for “2 pair power through” or “3 pairs power through” mode for variety range.
- For DC12V camera use, the power sources from SPP016VPD hub(AC24V) for professional CCTV Industry Installation. (Please Ref. to page 6)

**STP111VPD**
Video, Power, Data Transceiver (Terminal Termination)
- Male BNC with DC Plug+2 pin pigtail to 6 “push pin” terminal.
- Video, low voltage camera power, data (RS485) transmission over one CAT5 cable.

**STP111VPD-RJ45**
Video, Power, Data Transceiver (RJ45 Termination)
- Identical to STP111VPD, but with RJ45 connector instead of push pin terminal.
- Use with SDP016+ SPP016-RJ45 for 16 channel video, power, data for a neat and professional CAT5 cabling solution(Ref. to page 6).

**STP111AV**
Video & Audio Transceiver
- BNC female +2 RCA female to RJ45 female.
- Video and stereo audio transmission over one CAT5 cable.
- Passive, No power required.

*Specification subject to change without notice.*
STP111VK (STP111VT+STP111VL) DIY KIT

- Video & Power (2 pairs) Transmission over one CAT5 cable

STP111VPK (STP111VP+STP111VPJ) DIY KIT

- Video & Power (2 pairs) Transmission over one CAT5 cable

STP111VP3K (STP111VP3 + STP111VP3J) DIY KIT

- Video & Power (3 pairs) Transmission over one CAT5 cable

STP111VPK-T (STP111VP-T+STP111VPJ-T) Professional KIT

- Power cable could be one, two, or three pairs option based on camera power consumption and transmission range.

STP111VLK (STP111VL+STP111VT) DIY KIT

- Video & Power Transmission over one CAT5 cable

- With pigtail version for easy mounting and installation.
STP111VPD-RJ45-K (STP111VPD-RJ45+ STP111VPDJ-RJ45) DIY KIT

- Video, power, data combiner.
- Video, low voltage camera power, data (RS485) transmission over one CAT5 cable.

**4 Channel**

**STP414V**

4 Channel Video Transceiver
- Choice of RJ45 or push pin terminal inputs/outputs.

**STP414VD**

4 Channel Video Transceiver With Data
- Using 4 pairs CAT5 cable to transmit/receive 3 sets of video signals plus 1 data signal or transmit/receive 4 sets of video signals only.

**STP414VH**

4 Channel Video Transceiver With Extra Interference Rejection
- Perfect work with DVR to immunity DVR interference.
- Built in a highly balanced mode of video transmission, which is immune to interference from these, and other sources of noise: Data signals, other video signals, nearby power, ringing telephones, fluorescent lights, transformers, and more...

**STP444VPD**

4 Channel Video, Power, Data Transceiver
- Video, camera power, data (RS485) transmission over one CAT 5 cable.
- Built in PTC fuse for short protection.
- Use with STP111VPD to send 4 channels video, power, data over four CAT5 cable.

**SDP414VP**

4 RJ45 Female to 1 RJ45 Female Cable Hub With Power
- Use with STP111VP to transmit power for camera use from remote site 50 meters.
- Built in PTC (positive temperature coefficient) fuse 1.1Amp for short protection.
- DC 12V 1.2Amp power supply included.
- Option model:
  **SDP414VP-N** 4 RJ45 Female to 1 RJ45 Female Cable Hub package without power supply

*Specification subject to change without notice.*
Multi-Channel Panel and Rack Mounting

**SPP016**
16 Port Passive Video Transceiver Hub In 1U Rack Mounting Panel
- As a rack mounting passive transmitter hub, use with active receiver at distance up to 1000 meters.
- Built in a highly balanced mode of video transmission for extra interference immunity.

**SPP016-RJ45**
16 Port Passive Video Transceiver Hub In 1U Rack Mounting Panel
- Identical to SPP016, but using RJ45 termination instead of terminal block.
- Use with STP414V or use with STP111VPD-RJ45+SDP016 for a neat and professional CAT5 cabling solution.

**SPP016D**
16 Port Passive Video & Data Transceiver Hub In 1U Rack Mounting Panel
- Identical to SPP016, but with data transmission.
- 1 x RS485 data input to 16 x RS485 output.

**SPP016GB**
16 Port Passive Video Transceiver Hub Built in Ground Loop Isolator
- Identical to SPP016, built in high performance ground loop isolator (SGL001H) at each channel
- Prevents video-signal distortion caused by video ground loops.
- Eliminates picture tearing, cross talk and rolling.
- Prevents power cables laid by others interfering with the CCTV system.
SPP016VPD
16 Port Passive Video, Power, Data UTP Hub With AC Power Supply in 1U Rack Mounting Hub
- SPP016VPD UTP hub integrate and send video, power, data over one CAT5 cable up to 300 meters.
- Built in switch at each port to set unit for “2 pair power + 1 pair data” mode or “3 pairs power” mode.
- Use with video power transceiver STP111VP3 (AC24V camera), STP111VPC (DC12V camera) at camera side, to send video and power only.
- Use with STP111VPD-RJ45 video, power, data combiner at the camera side, to send video, power and data.
- 8 Amp AC24V power, each port output current up to 1.1Amp for camera, max up to 8 Amp.
- Built in “no fuse breaker” to avoid current overload.
- Built in PTC (positive temperature coefficient) for short protection and auto rework on each port.
- Option model:
  - STP111VP Video & Power Transceiver for AC24V Camera (2 pairs)
  - STP111VP3 Video & Power Transceiver for AC24V Camera (3 pairs)
  - STP111VPC Video & Power Transceiver for DC12V Camera
  - STP111VPD-RJ45 Video, Power, Data Transceiver

SDP016
16 Port Cable Integrator (Video, Power, Data) In 1U Rack Mounting Panel
- 16 cameras cable termination panel, use for integrating power, video and data signals.
- Built in surge protection on data.
- Use any third-party power supply to power cameras via UTP cable (PR816, PR816-12D, refer to page 57).
- Built in PTC (positive temperature coefficient) fuse 1.1Amp for short protection.
- Use with STP111VPD-RJ45 video, power, data transceiver at the camera side.
- Use with SPP016-RJ45 as video transceiver receiver at control room.
Active Series
Active Video Transceiver (power required), transmission range color 1500 meters, B/W 2400 meters via CAT5 UTP Cable.

Single Channel

STA111AV
Active Video & Audio & Data Twisted Pair Transmission
STA111AVT Transmitter,
STA111AVR Receiver
- Transmit video, audio and data signal (RS422, RS485).
- Three position range switch for gain select on transmitter.
- Five position distance range switch on receiver, brightness adjustment, two video output.
- Built in transient protection and ground lifting.

STA111V
Active Video Twisted Pair Transmission
STA111VT Transmitter, STA111VR Receiver
- Five position range switch for color gain on transmitter, brightness adjustment.
- Five position distance range switch on receiver, brightness adjustment.
- Built in transient protection and ground lifting.
- System is integrated with alarm sensor (PIR, Magnetic, etc...) or RS485/422 data

STA111VHA
Digital Auto Gain Active Receiver
- Auto gain control without any adjustment.
- Use with passive transmitter for distance up to 1.5KM.
- Use with active transmitter for distance up to 2.0KM.
- Built in transient protection and grounding lifting.

Specification subject to change without notice.
**STA111VRA**

Digital Auto Gain Active Receiver with Manual adjustment
- Dual control option for optimum video quality: Auto gain or manual adjustment.
- Auto gain control without any adjustment.
- Use with passive transmitter for distance up to 1.2KM.
- Use with active transmitter for distance up to 1.5KM.
- Built in transient protection and grounding lifting.

**STA111VH**

Active Receiver with Extra Interference Rejection
- Built in a highly balanced mode of video transmission for extra interference immunity.
- HF, MF, LF compensation for color gain and adjustable brightness & contrast for cleaner, sharper looking picture.
- Built in input impedance, balance, liner gain adjustment.
- Built in surge protection.
- Perfect to maintain good quality picture for long-range transmission with DVR.
- Using two sets of STA111VT+STA111VH for series connection, range up to 2.4Km(Color), 3Km(B/W).

**SDA102**

Twisted Pair Repeater, 1 Input to 2 Output Video Distributor
- As a UTP repeater, to repeat UTP signal up to 1Km.
- Built in twisted pair active receiver (STA111VR).
- Dual output: 1 BNC output for local, plus 1 UTP output for remote side.

**4 Channel**

**STA414VR**

4 Channel Active Receiver
- Identical to STA111VR, 4 port active receivers.
- Built in a highly balanced mode of video transmission for extra interference immunity.
**Multi-Channel Panel**

**SPA008**
8 Port Active Receiver Hub In 1U Rack Mounting Panel
- Built in 8 port STA111VR active receivers in 1U 19” rack mounting panel.
- Built in a highly balanced mode of video transmission for extra interference immunity.
- Built in transient protection and ground lifting.

**SPA008H**
8 Port Active Receiver Distribution Amplifier In 1U Rack Mounting Panel
- Identical to SPA008, 8 inputs (UTP screw-terminal) to 16 outputs (BNC).
- Built in surge protection, perfect to work with DVR.

**SPA016**
16 Port Active Receiver Hub In 1U Rack Mounting Panel
- Built in 16 port STA111VR active receivers in 1U 19” rack mounting panel.
- Built in a highly balanced mode of video transmission for extra interference immunity.
- Built in transient protection and ground lifting.

**SPA016H**
16 Port Active Receiver Distribution Amplifier In 1U Rack Mounting Panel
- Identical to SPA016, 16 inputs (UTP screw-terminal) to 32 outputs (BNC).
- Built in surge protection, perfect to work with DVR.

**SPA016A**
16 Port Digital Auto Gain Active Receiver
- Built in 16 port STA111VHA auto gain receivers in 1U 19” rack mounting panel.
- Auto gain control without any adjustment.
- Use with passive transmitter for distance up to 1.5KM.
- Use with active transmitter for distance up to 2.0KM.
- Built in transient protection and grounding lifting.
Rack Mounting

SRN012
3U 19” Rack Mounting Cabinet Built in Power Supply
- Standard 19” 3U rack mounting cabinet built in 3Amp switching power supply.
- 15 insert lots for SRP414VH, SRA111VH receiver rack card.
- Ground connecting for protection monitoring equipment.
- Ideal for large security monitoring stations or video distributions hubs.

SRP414VH
19” Rack Card 4 Channel Passive Receiver
- 1 RJ45 input and 4 video BNC outputs.
- Built in a highly balanced mode of video transmission for extra interference immunity.
- Perfect work with DVR to immunity DVR interference.
- Use with SRN012, to insert up to 15 pieces SRP414VH for 60 channel passive video transmission.

SRA111VH
19” Rack Card 1 Channel Active Receiver
- Built in a highly balanced mode of video transmission for extra interference immunity.
- HF, MF, LF compensation for color gain and adjustable brightness & contract for cleaner, sharper looking picture.
- Built in surge protection.
- Perfect to maintain good quality picture for long-range transmission with DVR.
- Use with SRN012, to insert up to 15 pieces SRA111VH for 15 channel active video receive.

SPN009
19” 2U Rack Mounting Panel
- Standard 19-inch (482mm) wide, 3.5-inch (88mm) 2U high.
- Support up to 9 pieces of STA111VR or SCD102.

SPN012-C
19” Universal Rack Mounting Panel with 4 Pieces Holder
- 4 pieces holder for plastic case (to fit STP414VD, STP414VH, STA111VH, STA111AVR).
- Standard 19-inch (482mm) wide, could supports up to 12 pieces holder.

SPN012C
4 Pieces Holder In One Bag For SPN012-C

SPN012-T
19” Universal Rack Mounting Panel With 4 Pieces Holder
- 4 pieces holder for Metal case (to fit STP111AV, STP414V, STP444V, STA111AVR).
- Standard 19-inch (482mm) wide, could supports up to 12 pieces holder.

SPN012T
4 Pieces Holder In One Bag For SPN012-T
Video & High Power UTP Cabling Solution

**STA111VPDR**
1 Port Video, Power, Data Receiver With DC High Power Supply
- Use with STP111VPDC video, power, data transmitter at camera side to send video and power data from remote side over one UTP CAT5 cable.
- Provide high power to remote camera DC12V/25W (Max.)
- Power input: AC100-AC240V.
- Transmission range up to 300 meters.
- Built in ESD and surge protection.

**STA414VPDR**
4 Port Video, Power, Data Receiver With DC High Power Supply
- Identical to STA111VPDR, but with 4 Port Video, Power, Data receiver hub.
- Provide high power to 4 remote cameras DC12V/100W (Max.)
- Built in fan for low operating temperature.
- Rack mounted ablg with SPN002 panel.

**SPN002**
1U 19" Rack Mounting Panel For STA414VPDR
- Supports 2 pieces of STA414VPDR.
- Standard 19-inch (482mm) wide, 3.5-inch (88mm) 1U high.
**SIP01**

**IP Extender over Coax**
- Send IP camera signal over existing coaxial cable.
- Passive type, no power required.
- 802.3 10BaseT specification, isolating the receiver from the transmitted signal.
- Transmission up to 200 meters (Max).

**SIP01H**

**Ethernet Switch with 4 Port 10Base-T+ 1 Port 10/100Base-T**
- 5 Port Ethernet Switch with 4 port BNC and 1 port RJ45.
- RJ45 terminal support 10/100Mbps auto detect function.
- BNC terminal support 10Mbps, must work with SIP01.
- LED indication: Link/Active, Power.
- Complies with standard IEEE802.3 and IEEE802.3u.
- Auto MDI/MDI-X auto cross at RJ45 terminal.

**SIP01K**

**4 x SIP01 IP extender + 1 x SIP01H 5 Port Ethernet Switch Kit Package**
- Package include: 4 pieces x SIP01, 1pcs x SIP01H with power adapter.

**SIP02P**

**IP Extender with Power over Coax**
- Send any extend IP / POE camera or any TCP/IP devices over existing coaxial cable.
- Maximum range up to 180 meters over RG6 75Ω cable, 125 meters over RG59 75Ω cable.
- Ability to send power over coax to IP/POE camera (DC5V, DC12).
- Support 10/100BASE-T transmission rate.

**SIP02**

**Active IP Extender over Coax**
- Send and extend IP camera signal or any TCP/IP devices over existing coaxial cable.
- Active type, including transmitter and receiver.
- Long range transmission up to 2000 meters (Max.).
**SIP03**

Active IP Extender over CAT5
- Identical to SIP02, but over CAT5 cable instead of coaxial cable.
- Long range transmission up to 1200 meters (Max.)

**SSR01**

Lan Repeater
- Extender IP signal and repeater range up to 120 meters.
- A long range extension could be done by using multiple repeaters.
- Support 10/100/1000 BASE-T transmission rate.
- External power required.

**POE Repeater, Injector, Splitter**

**SEP01**

Easy POE – Passive
- Send power to remote over unused pairs of 100baseT network cable.
- Including 2 units/one pair, do not include power adapter.
- Working distance depends on the power supply, cable type, and powered device.

**SIP04**

POE Repeater
- Extend of both power and data beyond 100 meters.
- Maximum range up to 300 meters.
- No external power required.
- Compatible IEEE 802.3af POE standard.
- Support 10/100/1000 BASE-T transmission rate.
SIP05

POE Kit (SIP05I Injector, SIP05S Splitter)
- Include SIP05I POE injector and SIP05S POE splitter.
- Compatible IEEE 802.3af [12.95W] POE standard, PSE/PD.
- SIP05I provides DC 48V power over RJ45 Ethernet cable to device with Ethernet port.
- SIP05S splits the DC48V power over RJ45 Ethernet cable into DC 5V/12V output.
- Adjustable two different output voltage options (5V/2A, 12V/1A) to fit various devices.
- Supports POE power up to 12.95 Watts for POE port.
- Support 10/100/1000 BASE-T transmission rate.

SIP06

High Power POE Kit (SIP06I Injector, SIP06S Splitter)
- Include SIP06I POE injector and SIP06S POE Splitter.
- Complies with IEEE 802.3at Gigabit High Power over Ethernet pre-standard, PSE/PD.
- SIP06I provides DC 56V power over RJ45 Ethernet cable to devices with Ethernet port.
- SIP06S splits the 56V DC power over RJ45 Ethernet cable into DC 5V/12V output.
- Adjustable two different output voltage options (5V/4.5A, 12V/2A) to fit various devices.
- Supports POE power up to 25 Watts for POE port.
- Support 10/100/1000 BASE-T transmission rate.

SIP05H

5 Port POE Switch
- 4-port 10/100 TX with embedded PoE injector.
- 1-port 10/100 TP for connecting to LAN.
- Compatible IEEE 802.3af POE standard.
- Features Auto-sensing for detecting PoE or non-PoE devices
- 2 units install at SPN002 rack mounting become 8 port switch.

* Option Model : SPN002 1U 19”Rack Mounting Panel
IP . POE Surge Protector

**SSP006**
Network Surge Protector
- Perfect for IP camera, network, PC modem, server... protection.
- Protects CAT5 VGA extender or any computer equipments.

**SSP006P**
POE Surge Protector
- Protect POE (Power over Ethernet) camera, POE devices.
- Support Mid-Span and End-Span POE.

**SSP016N**
16 Channel Network Surge Protector for NVR in 1U Rack Mounting Panel
- Provide protection for NVR, network, PC modem, server or any computer equipment with multiple inputs protection.

**SSP016P**
16 Channel POE Surge Protector for POE Hub in 1U Rack Mounting Panel
- Protect 16 channel POE switch (Power over Ethernet).
- Support Mid-Span and End Span POE.

*Specification subject to change without notice.*
**HD-SDI Repeater & Converter**

**SSR02**

**HD-SDI Extra Long Range Repeater**
- Extend HD SDI signal over 75Ω coax cable up to 200M.
- Support SDI (SMTP 259M), HD-SDI (SMTP 292M), 3G-SDI (SMTP 424M).
- Support video signal NTSC, PAL, 720p, 1080i, 1080p.
- Built in RS485 control with half duplex speed up to 57,600 bps, but which effects only when using 2 pieces or more than 2 pieces SSR02 long range installation.
- Ability to do multiple repeaters application up to 5 pieces with distance 1KM (Max.)
- Ability to send power to next SSR02 repeater unit over coax cable from the remote repeater (nearest the DVR) when using 2 piece or more than 2 pieces SSR02 long range installation.

**SSDI01**

**HD-SDI to HDMI Converter With Loop out**
- To send 3G/HD/SDI signal convert to HDMI.
- Support SDI (SMTP 259M), HD-SDI (SMTP 292M), 3G-SDI (SMTP 424M).
- Support video signal NTSC, PAL, 720p, 1080i, 1080p.
- Support HDMI 7.1 Channel audio.
- Built in Equalizer to increase the working distance and signal reliability.

**SSDI02**

**HDMI to HD-SDI Converter**
- HDMI to SDI/HD-SDI full 10 Bit conversion.
- Full HDMI support including embedded audio.

**SSP007**

**HD-SDI Surge Protector**
- BNC male to BNC female for HD CCTV use.

*Specification subject to change without notice.*
**HDMI CAT5 Extender & Distributor**

**SHE01E**
HDMI CAT5 Extender over two CAT5 Cable
- Extends HDMI signal over two CAT5/5e/6 cables.
- Transmission range up to 60M at 1080i, 50M at 1080p resolution.
- HDMI 1.3a compatible, HDCP 1.1, support DDC, EDID, CEC, Hot Plug Detect.
- No power need within 30 meters.
- External power supply requested at remote unit for transmission range over 30 meters.
- HDCP compliant.

**SHE01EI**
HDMI & IR CAT5 Extender over two CAT5 Cable
- Identical to SHE01E, but built in IR repeater.

**SHE01S**
HDMI CAT5 Extender – Single CAT5 Cable 50 Meters
- Extends HDMI signal over one CAT5/5e/6 cable. (*SHE01ST*: Transmitter, *SHE01SR*: Receiver)
- HDMI 1.3 compliant.
- Transmission range up to 70M at 1080i, 50M at 1080p resolution.
- No external power requested at receiver unit under distance 30 meters.
- HDCP compatible.
- Optional HDMI CAT5 Receiver: SHE01SLR, SHE01SER.

**SHE01SER**
HDMI CAT5 Receiver – Passive type (*SHE01SE*: SHE01ST+SHE01SER)
- Work with SHE01ST as economic type receiver.
- Passive, no external power required.
- Transmission range up to 50M at 1080i, 30M at 1080p resolution.

**SHE01SLR**
HDMI CAT5 Receiver – Chainable Function (*SHE01SL*: SHE01ST+SHE01SLR)
- Work with SHE01ST as receiver for extra remote HDMI display equipment.
- It could be daisy chained for another SHE01SLR to extended working range and multiple displays.
- Transmission range up to 70M at 1080i, 30M at 1080p resolution.
**SHE02E**

**HDMI CAT5 Extra Long Range Extender over Single CAT5 cable 100 Meters**
- Extends HDMI over one CAT5/5e/6 cable.
- Uncompressed high definition video up to 1080p@60Hz@48bits and 3D capable.
- Max. Data Rate: 10.2Gbps.
- HDCP and HDMI 1.4 compliance.
- Transmission range up to 100 meters at 1080p resolution.

**SHE02**

**HDMI CAT5 Extra Long Range Extender With RS232 & IR over Single CAT5 cable**
- Extends HDMI, RS232 and IR signal over one CAT5/5e/6 cable.
- Uncompressed high definition video up to 1080p@60Hz@48bits and 3D capable.
- Max. Data Rate: 10.2Gbps.
- HDCP and HDMI 1.4 compliance.
- Bi-Directional RS232 interface – commands and data can flow in both directions via RS232, allowing status requests and control of the destination unit.
- Transmission range up to 100 meters at 1080p resolution.

**SIE01**

**IR CAT5 Extender**
- Extend IR (infrared) control signal up to 300M over one CAT5/5e/6 cable.
- IR receiver frequency range: 30Khz to 60Khz.
- Supports up to 4 outputs.
- Support Bi-directional application.
- Package include IR CAT5 Extender Kit, 1 x power adapter, 1 x IR emitter cable, 1 x IR receiver cable.
- Option model: SIR-CT01 IR emitter cable, SIR-CR01 IR receiver cable.
SHE03L
1 in 3 out HDMI CAT5 Extender & Distributor with Chainable Function
- Extends HDMI signal 100M at 1920 x 1080@60hz and distribution over one CAT5e/6 cable.
- SHE03LR receiver built in 2 x RJ45 output to chainable to another receiver for extra long range distance and multiple displays.
- SHE03LR receiver could be chainable up to 31 layers with distance 3.1KM. It also could be cascade by 31 layers, total up to 100 displays.
- HDMI 1.3 compliant

SHE04M
4 x 4 HDMI (HDBaseT) Matrix Switcher
- 4x HDMI inputs, 4x Outputs via Cat5e/6 cable
- Uncompressed high definition video up to 1080p@60Hz and 3D capable.
- HDMI 1.4 video features supported
- Work with SHE02ER receiver at each monitor up to 100meters over CAT5e/6
*CAT5 Receiver option model : SHE02ER HDMI (HDBaseT) Receiver

SHE01C
HDMI over Coax Extender
- Send HDMI signal over single coaxial cable up to 100 meters at 1080p resolution.
- Support daisy chain multiple remote displays. (Model: SHE01CR Receiver)
- HDMI 1.3b and HDCP compliant.
- Option model : SHE01CR Receiver

HDMI Distribution Amplifier, Switcher, Repeater, Converter

SHD02
2 Input 2 Output HDMI Distribution Amplifier
- Connects up to 2 HDMI displays at the same time from a digital video source.
- 2 input selectable by front buttons (A/B).
- A, B Input could be set up by auto jump or manual.
- Support high resolution: 480i, 480p, 720p, 1080i, 1080p @24/50/60Hz
- Bandwidth 25-225Mhz, support up to 12-Bit deep color.
- Support HDCP 1.3a, HDCP compliant.

SHD04
2 Input 4 Output HDMI Distribution Amplifier
- Identical to SHD02, but 4 HDMI displays at the same time from a digital video source.
SHS04
4 Input 1 Output HDMI Switcher
- Switch easily between any four HDMI sources by remote control or push button front.
- HDMI 1.3a compliance, support Deep Color 12 Bits/Color (Data rate up to 2.25Gbps) and 3D Capable.
- Supports high resolution input: 480i, 576i, 480p, 576p, 720p, 1080i and 1080p @60Hz.
- Built in auto scan switching input function, to automatically select the next one with the signal of the input.
- Built in auto jump function, to automatically select the new video input.
- Easy to use front panel control of switching or using the included remote control.

SHS07
7 Input 1 Output HDMI Switcher
- Identical to SHS04, but switch 7 HDMI devices.

SHR01
HDMI Repeater
- Extends high definition video and digital audio up to 50 meters.
- Supports high definition video up to 1080p.

SHV01
HDMI to VGA With Stereo Audio Converter
- Supports HDMI input and VGA with 3.5mm stereo audio output.
- Supports VGA resolutions up to 1920x1200.
- HDMI and DVI compliant, support DVI with a DVI to HDMI adapter.

SHY01
HDMI to Component Video With Stereo/Digital Audio Converter
- Supports HDMI input and component video with stereo/digital audio output.
- Support component video resolution up to 1080p.

SHD01
HDMI to DVI Converter
- HDMI 1.3 compatible.
- Fully HDCP compliant.
- HDMI video up to 225MHz.

*Specification subject to change without notice.*
**CAT5 VGA, USB, Keyboard Mouse Extender**

**SUE01**
USB 1.1 CAT5 Extender - Single port
- Extend one USB device with full-speed 70 meters (Max), low-speed 300 meters (Max) over CAT5/5E cable.
- Distance less than 50 meters, no external power required.
- Distance over 50 meters, external power adapter requested at remote unit.
- Low speed keyboard mouse equipments up to 300 meters, external power adapter requested at remote unit.

**SUE04H**
USB CAT5 Extender with 4 Port USB 1.1 Hub
- Extend four USB devices up to 50 meters over CAT5/5E cable.
- Remote unit built in 4 port hub to connect 4 USB devices.
- Application for extending USB peripheral devices, such as security cameras, printer, scanner, keyboard, mouse, etc.

**SUE02**
USB 2.0 CAT5 Extender with 4 Port USB Hub
- Extend four USB devices up to 150 meters over CAT5/5E cable.
- Supports USB 2.0 high-speed and USB 1.1 (low-speed, full-speed) devices.
- Remote unit built in 4 port hub to connect 4 USB devices.
- Application for extending USB 2.0 peripheral devices, such as flash drive, hard drive, keyboard, mouse, etc.
- Optional model: SSR01 signal repeater for longer distance application.

**SKM01**
Keyboard Mouse CAT5 Extender – PS/2 Interface
- Extend PS/2 keyboard and mouse via one CAT5 UTP cable.
- Local unit: PS/2 with 6" lead to RJ45, Remote unit: RJ45 to PS/2.
- Passive, no power required.
- Transmission range up to 100 meters.

**SKM02**
Keyboard Mouse CAT5 Extender – USB Interface at Local Unit
- Identical to SKM01, but local unit (PC side): USB to RJ45
SKM03
Keyboard Mouse CAT5 Extender – USB Interface
• Extend USB keyboard and mouse via one CAT5 UTP cable.
• External power required at remote side.
• No external power adapter required less 30 meters.
• Transmission range up to 300 meters.

SVKM01
VGA Keyboard Mouse CAT5 Extender – PS/2 Interface
• Extend VGA and keyboard mouse over 2 CAT5 cable.
• Passive, no power required.
• Transmission range up to 100 meters.

SVKM02
VGA Keyboard Mouse CAT5 Extender – USB Interface at Local Unit
• Identical to SVKM01, but the keyboard mouse with USB Interface at local unit.

SVKM03
VGA & USB with Stereo Audio, RS232, IR CAT5 Extender
• Extend VGA, stereo audio, RS232, IR and USB signals over one CAT5E/CAT6 cable.
• USB 2.0 for 4 ports USB devices, to extend USB 2.0 peripheral devices, such as flash disk, hard disk, keyboard, mouse, etc.
• Transmitter unit built in VGA loop output.
• Supports up to 1920 x 1080.
• Transmission range up to 140 meters.
• Perfect for control remote machines and security monitoring systems, digital signage application.
• Optional model: SSR01 signal repeater for longer distance application.

SSR01
Signal Repeater
• Repeater for SUE02 USB CAT5 Extender and SVKM03 VGA & USB up to 240 meters.
• A longer range extension could be done by using multiple repeaters.
• External power required.
**SVE01P (STP111VGA)**
*Passive VGA CAT5 Extender*
- Passive device, no power required.
- Supports up to 1280x1024 pixels.
- Up to 135 meters via standard 4 pairs CAT5 STP or UTP cable instead of VGA cable.
- Compatible with wall plate type VGA extender: SVE01H, SVW01, SVW02

**SVE01H**
*Active High Resolution VGA CAT5 Extender*
- Economic active type.
- Supports high resolution up to 1920 x 1200 at 70 meters.
- External power required at transmitter unit, no power requested at receiver unit.

**SVE01HA**
*Active High Resolution VGA CAT5 Extender With Stereo Audio*
- Identical to above SVE01H, but with stereo audio function.
- Audio by digital encoding process for sound undistorted.
- Compatible with wall plate type VGA extender: SVE01HA, SVW01HA

**SVE01 (STA111VGA)**
*Active Long Range VGA CAT5 Extender*
- Built in contrast, brightness adjustment at receiver.
- Supports up to 1600x1200 @85Hz
- Long range transmission up to 300 meters (Max.)

**SVE01S (SVD02)**
*VGA & RS232/RS485 Long Range CAT5 Extender*
- Send VGA and RS232/RS485 data over one CAT5 cable.
- Dual output: 1 VGA loop output for local, plus 1 CAT5 RJ45 output for remote side.
- Supports up to 1600x1200 @85Hz.
- Long range transmission up to 300 meters (Max.)
- Built in dip switch for RS232 or RS485 option.
- Application for sending video images to a projector and controlling it from your desk
- Perfect for touch screen or auto control equipment application.

*Specification subject to change without notice.*
CAT5 VGA, Audio and Rack Card Solution Distribution Amplifier

SVD04A
1 Input 4 Output VGA Distributor with Stereo Audio
• Connects computers with VGA graphics to four VGA monitors.
• Supports stereo audio.
• Output 1 support DDC function.
• Support up to 450MHz bandwidth.
• Supports high resolution up to 1920 x 1200@60Hz.
• Cascadable for multi outputs.

SVE02 (SVD102)
CAT5 VGA 1 Input to 2 Output Distributor
• Dual output: 1 VGA loop output for local and 1 x CAT5 output for remote side.
• Long range transmission up to 300 meters (Max.)
• Supports up to 1600x1200@85Hz.
• Built in contrast, brightness adjustment at receiver.
• CATS receiver option model: SVE02DALS Chainable CAT5 Receiver.

SVE05 (SVD105)
CAT5 VGA 1 Input to 5 Output Distributor
• Identical to SVE02, but SVE05T transmitter with 4 port CAT5 output for remote side.
• Each set including 1x SVE05T transmitter and 1 x SVE02R receiver.
• Each VGA display equipment request one receiver at remote side.
  (Order separately).
• CATS receiver option model: SVE01R VGA CAT5 Receiver, SVE02DALS Chainable CAT5 Receiver.

SVE01R (STA111VGAR)
CAT5 Long Range VGA Receiver For SVE05 Option model
• Work with SVE05T as receiver for extra remote VGA display equipment.
• Built in contrast, brightness adjustment
• Long range transmission up to 300 meters (Max.)
**SVE02AL**
1 in 3 Out VGA & Stereo Audio CAT5 Extender Distributor – Chainable Function
- Dual output: 1 VGA loop output for local, plus 2 x CAT5 output for remote side.
- Long range transmission up to 300 meters [Max.]
- Supports up to 1600x1200 @85Hz.
- Built in equalization, gain adjustment, chainable CAT5 output at remote unit.
- Audio by digital encoding process for sound undistorted.
- CATS receiver option model: SVE02ALR CATS Receiver, SVE02DALS Chainable Receiver.

**SVE05AL**
1 in 5 Out VGA & Stereo Audio CAT5 Extender Distribution Amplifier - Chainable function
- Identical to SVE02ALT, but SVE05ALT transmitter with 4 port CAT5 output for remote side.
- Each set including 1x SVE05ALT transmitter and 1 x SVE02ALR receiver.
- Each VGA display equipment request one SVE02ALR receiver at remote side. (Order separately).
- CATS receiver option model: SVE02ALR CATS Receiver, SVE02DALS Chainable Receiver.

**SVE10DAL**
1 in 11 Out VGA & Stereo/Digital Audio CAT5 Extender Distributor In 1U Rack Mounting Panel
- Dual output: 1 VGA loop output for local, plus 10 x CAT5 output for remote side.
- Built in one loop out allows cascading connection multi units for larger display system.
- Audio by digital encoding process for sound undistorted.
- Extends signals up to 300 meters over CAT5 cable.
- Supports up to 1600x1200 @85Hz.
- CATS receiver option model: SVE02ALR CAT5 Receiver, SVE02DALS Chainable Receiver.

**SVE02ALR**
VGA & Stereo Audio CAT5 Receiver – Chainable function
- Work with SVE02ALT/ SVE05ALT/ SVE10DAL, as receiver for extra remote VGA display equipment.
- It could be daisy chained for another SVE02ALR to extended working range over 300 meters and multiple displays.
- Built in equalization, gain adjustment.

**SVE02DALS**
VGA & Stereo/Digital Audio CAT5 Receiver- Built in Skew Corrector
- Work with transmitter SVE01T/SVE02T/SVE05T/SVE02ALT/SVE05ALT/SVE10DAL, as receiver and built in RGB skew corrector for the optimum video performance under long cable run.
- Built in digital audio output (coaxial, optical)
- Built in chainable function.
SRB01
3U 19” Rack Mounting Cabinet
• Allow to insert 15 rack cards (SRV01, SRT01).
• Built in 1000W switching power supply (+5V 10Amp, -5V 10Amp).
• Built in fan for low operating temperature.
• Ideal for multi input/output VGA, stereo/digital audio distribution. Perfect for use in shopping malls, public address systems, airports, train & bus station, boardrooms, trade shows, computer based training application.

SRV01
1 Channel VGA & Stereo/Digital Audio Input Rack Card
• 19” rack card with one VGA & stereo audio input and one loop output.
• Loop out could be for local monitoring or daisy chain application.
• Audio output could be digital or analog conversion. (Digital audio only support PCM format).
• Support DDC and built in EDID, backup monitor EDID function.
• Maximum supports up to 4 channel VGA & stereo/digital audio input cards (SRV01x 4 pieces) in one SRB01 rack mounting cabinet.
• Each input could allow multi outputs via SRT01 (5 Channel CAT5 output rack card).
• Used to work with SRT01 CAT5 5 channel transmitter rack card for multi input/output distribution over CAT5 cable.

SRT01
5 Channel CAT5 VGA & Audio Output Rack Card
• 19” rack card with 5 Channel CAT5 output as a CAT5 transmitter.
• Remote monitoring side using CAT5 receiver box, such a SVE02ALR, SVE02DALS.
• VGA resolution support up to 1600 x 1200@85Hz.
• Long range transmission up to 300 meters (Max.)
• Allow up to 14 pieces SRT01 CAT5 transmitter card at SRB01, to send multi distribution up to 70 remote monitors.

Option Model:
SVE02R: VGA Receiver
SVE02ALR: VGA & Stereo Audio CAT5 Receiver– Chainable function
SVE02DALS: VGA & Stereo Audio, Digital Audio CAT5 Receiver– Built in Skew Adjustment
VGA Converter

SAD001
Video to VGA Converter
- Special designed for computer VGA monitor, LCD color monitor.
- Support NTSC, PAL video system.
- Built in auto memory function.
- On screen display function: Brightness, Tint, Color, Contrast.
- Resolution: NTSC: 720 x 480 @ 60 Hz, PAL: 720 x 576 @ 50 Hz
- PAL, NTSC auto configure.

SAD001H
High Resolution Video to VGA Converter with BNC loop out
- Dual output: DB15 x 1 for VGA monitor and BNC x 1 for TV monitor.
- Support NTSC, PAL video system.
- Input video system 50 to 60Hz frame rate detection (NTSC/PAL).
- The DEINTERLACED and Scan rate conversion output mode: 800 x 600, 1024 x 768, up to 1280*1024@60Hz.
- Frequency output: 60Hz, 75Hz, 85Hz.
- Built in ESD protection.

SAD001HH
High Resolution Video to VGA Converter with HDMI Output
- Composite video inputs via RCA, VGA and HDMI output.
- Support NTSC, PAL video system.
- Input video system 50 to 60Hz frame rate detection (NTSC/PAL).
- The DEINTERLACED and Scan rate conversion output mode: 640x480, 800x600, 1024x768, 1280x720, 1280x1024, 1920x1080@60Hz.
- Support HDMI output: 720P, 1080I, 1080P
- Built in stereo audio input and output.
- Frequency output: 60Hz, 75Hz, 85Hz.

SVC01
VGA to Video Converter
- Connects VGA output to existing TV or CRT monitor.
- Video standards: NTSC/NTSC-EIAJ/PAL/PAL-M/PAL-N/SECAM.
- Resolutions support: 640 x 480 (up to 85 Hz), 800 x 600 (up to 85 Hz) and 1024 x 768 (up to 75 Hz).
- Dual output ports: composite video (BNC connector), VGA (DB15).

SVH01
VGA to HDMI Converter with Local loop VGA output
- Convert VGA & stereo/Digital (SPDIF) audio to HDMI display.
- Built in local VGA loop output with stereo/Digital (SPDIF) audio.
- Support HDMI & DVI output mode. (Package not includes HDMI to DVI cable/adapter).
- Encodes analog stereo audio or digital audio onto the video signal for HDMI video and audio.
- Supports PC resolution up to 1920 x 1080.
**SDE01**

DVI & Audio CAT5 Extender - 1 in 2 out

- Extends any DVI compliant device over two CAT5E/6 cables.
- Transmission range up to 50 meters at 1920 x 1200.
- Support analog stereo audio: 20Hz – 20Khz.
- Dual output: 1 x DVI loop output for local, plus 1 x CAT5 RJ45 output for remote side.
- Support DDC, EDID and hot plug detection.

**SDE01E**

DVI CAT5 Extender over Single CAT5 cable 25 Meters

- Passive, no power required.
- Used in pairs via one CAT5E/6 cable to send DVI signal.
- Extend the transmission distance up to 25 meters at 1024 x 768.
- Extend the transmission distance up to 10 meters at 1920 x 1200.

**SDE01ERK**

DVI CAT5 Extender over Single CAT5 cable 70 Meters

- Identical to SDE01E, but with longer distance.
- No external power required.
- Extend the transmission distance up to 70 meters at 1024 x 768.
- Extend the transmission distance up to 50 meters at 1920 x 1200.

**SDE03**

DVI CAT5 Extender & Distributor - 1 in 3 out

- Connects a DVI video source to 3 DVI compatible displays.
- 3 outputs: 2 x DVI-D, plus 1 x CAT5 RJ45 output for remote side.
- Each set including 1 x SDE03T distributor, 1 x SDE01E CAT5 receiver and 1 x 5V power adapter.
- SDE01E as DVI CAT5 receiver at remote side, range up to 30 meters.
- Extends 15 meters of input/output DVI cable.

**SDE01U**

DVI with USB 1.1 CAT5 Extender over two CAT5

- Include SDE01UT transmitter, SDE01UR receiver, used in pairs via two CAT5E/6 cable to send DVI and USB signal.
- Built in 3 port USB Hub & USB Audio.
- Extend the transmission distance up to 45 meters at 1920 x 1200.
DVI Distribution Amplifier, Switcher, Repeater, Converter

**SDD02A**
1 Input 2 Output DVI Distribution Amplifier With Stereo Audio
- Connects up to 2 DVI displays at the same time to one video source.
- Supports high resolution PC: VGA, SVGA, XGA, SXGA, UXGA.

**SDD02D**
1 Input 2 Output DVI Distribution Amplifier With Digital/Optical Audio
- Identical to SDD02A, but with digital/optical audio.

**SDD04A**
1 Input 4 Output DVI Distribution Amplifier With Stereo Audio
- Connects up to 4 DVI displays at the same time to one video source.
- Supports high resolution PC: VGA, SVGA, XGA, SXGA, UXGA.

**SDD04D**
1 Input 4 Output DVI Distribution Amplifier With Digital/Optical Audio
- Identical to SDD04A, but with digital/optical audio.

**SDS02**
2 Input 1 Output DVI Switcher
- Switch easily between any two DVI sources.
- Extends the range of DVI compliant device by equalizing and reclocking the DVI signal.
- Supports high resolution input:
  - PC: VGA, SVGA, XGA, SXGA, UXGA, WUXGA (1920 x 1200)
  - HDTV: 480i, 576i, 480p, 576p, 720p, 1080i and 1080p @60Hz.
- IR remote control included.

**SDS02A**
2 Input 1 Output DVI Switcher With Stereo Audio
- Identical to SDS02, but with stereo audio.
**SDS02D**

2 Input 1 Input DVI Switcher With Digital Audio

- Identical to SDS02, but with digital/optical audio.

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**SDS04**

4 Input 1 Output DVI Switcher

- Switch easily between any four DVI sources.
- Extends the range of DVI compliant device by equalizing and reclocking the DVI signal.
- Supports high resolution input:
  - PC: VGA, SVGA, XGA, SXGA, UXGA, WUXGA (1920 x 1200)
  - HDTV: 480i, 576i, 480p, 576p, 720p, 1080i and 1080p @60Hz.
- IR remote control included.

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**SDS04A**

4 Input 1 Output DVI Switcher With Stereo Audio

- Identical to SDS04, but with stereo audio.

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**SDS04D**

4 Input 1 Output DVI Switcher With Digital Audio

- Identical to SDS04, but with digital/optical audio.

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**SDR01**

DVI Repeater

- Extends digital video up to 50 meters.
- Maintains multiple high definition resolutions up to 1080p or 1920 x 1200 for computers.

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**SDH01**

DVI & Audio to HDMI Converter

- HDMI 1.2a compatible.
- Fully HDCP compliant.
CCTV Video, Audio Distribution Amplifier

SAA001
In Line Audio Pickup Box
- Audio pick up works individually without any other equipment.
- One add-on mini audio box for all cameras which need audio function.
- High sensitive microphone (-65dB) and DC 12V power regulator built-in box.

SAA002
Audio pick up box
- Add-on mini audio box for all cameras that require an audio function.
- High sensitivity microphone with 45cm power/audio cable.
- Easy to install and ideal for all security surveillance needs.
- DC12V power operation.

SAA003
Mini Hidden Type Microphone
- One add-on mini hidden audio board for all cameras which need audio function.
- High sensitive microphone with 50cm power/audio cable.
- Easy to install and ideal for all security surveillance needs.
- DC12V power operation.

SAE02GL
Stereo Audio Ground Loop Isolator
- Stop the humm in your speakers.
- Provides superior audio performance.
- Totally preserves your audio signal.
- Breaks the electrical ground between audio components and no path for current flow.
- Compatible with all audio components.
- Ideal for multiple amplifier installations.
SCD102
1 Input to 2 Output Video Distributor
- 1 video input to 2 video output.
- Dual Power: DC12V / AC24V.
- When using multi distributors, a jumper is needed to extend power.
  (Max of 8 per power adapter)
- Package includes a jumper.

SCD102A
1 Input to 2 Output Video Distribution Amplifier
- 1 video input to 2 video output.
- 10dB video gain compensation amplification and HF compensation.
- Sharpness and brightness adjustment, perfect to work with DVR.
- Transmission range: 1000 meters (RG59 coaxial cable)

SCD104
1 Input to 4 Output Video Distributor
- 1 video input to 4 video output.
- Dual Power: DC12V / AC24V

SCD108
1 Input to 8 Output Video Distributor
- 1 video input to 8 video output.

SCD408
4 Input to 8 Output Video Distributor
- 4 video input to 8 video output.

SCD408A
4 Input to 8 Output Video Distribution Amplifier
- 4 video input to 8 video output.
- 10dB video gain compensation amplification and HF compensation.
- Sharpness and Brightness adjustment, perfect to work with DVR.
- Transmission range: 1000 meters (RG59 coaxial cable)

*Specification subject to change without notice.*
**SCD816**

8 Input to 16 Output Video Distributor

- 8 video input to 16 video output.
- Automatic gain control (±6dB range).
- Blue LED: video signal on/off detection at each channel.
- 50Hz/60Hz input rejection of 60dB.
- Built in out-of-band noise filter.
- Dual Power: DC12V / AC24V

**SCD816P**

Programmable 8 Input to 16 Output Video Distributor

- Professional version, configurable at 8 video inputs/16 video outputs by software, jumperless for easy setting.
- LED display and 4 buttons for setting, each operation.
- Each video input (8) could set up “1-16” video outputs.
- Built in memory function, no need resetting after power disconnection.
- Channel 16 including extra “switcher output” function.
- DWELL time adjustable at Switcher mode (1~30 seconds).

**SCD816A**

8 Input to 16 Output Video Distribution Amplifier In 1U Rack Mounting Panel

- 8 video input to 16 video output.
- Dual Power: DC12V / AC24V.
- 10dB video gain compensation amplification and HF compensation.
- Sharpness and brightness adjustment, perfect to work with DVR.
- Transmission range: 1000 meters (RG59 coaxial cable)
SCA101
1 Input to 1 Output Video Amplifier
- 1 video input to 1 video output.
- 10dB video gain compensation amplification and HF compensation.
- Sharpness and brightness adjustment, perfect to work with DVR.
- Transmission range: 1000 meters (RG59 coaxial cable)

SCA101A
1 Input to 1 Output Video & Audio Amplifier
- Video & Audio amplifier.
- Others identical to SCA101

SCA404
4 Input to 4 Output Video Amplifier
- 4 video input to 4 video output.
- 10dB video gain compensation amplification and HF compensation.
- Sharpness and brightness adjustment, perfect to work with DVR.
- Transmission range: 1000 meters (RG59 coaxial cable)

SCA101VH
1 Input to 1 Output Video Amplifier, HF/MF/LF Compensation
- HF/MF/LF compensation for color gain and adjustable brightness & contrast for cleaner, sharper looking picture.
- Built-in input impedance, balance, linear gain adjustment.
- Built in surge protection.
- Perfect to maintain good quality picture for long-range transmission with DVR.
- Transmission range: 1500 meters (RG59 coaxial cable)
- Use with SCA101, transmission range could up to 2KM.

SCD1632A
16 Input 32 Output Video Distribution Amplifier
- 16 video input to 32 video output.
- 10dB video gain compensation amplification and HF compensation.
- Sharpness and brightness adjustment, perfect to work with DVR.
- Transmission range: 1000 meters (RG59 coaxial cable)

SCD1664
16 Input to 64 Output Video Distributor In 2U Rack Mounting Panel
- 16 video input to 64 video output.

*Specification subject to change without notice.*
AV CAT5 Extender and Distribution Amplifier

**SAE01**
Audio CAT5 Extender – RJ45 Termination
- Gold-plated RCA female to RJ45.
- Used in pairs via one CAT5 UTP cable to send audio signal up to 600M.
- Passive, no power required.
- 20Hz to 20Khz Bandwidth.
- Available for 75-120ohm cable.
- Hi performance to eliminate audio ground loop problem.

**SAE01-T (STP111A)**
Audio CAT5 Extender – Terminal Termination
- Identical to SAE01, but screw terminal termination instead of RJ45.

**SAE01D**
Digital Audio CAT5 Extender
- Gold-plated RCA connector to screw terminal.
- Passive, no power required.
- Support Dolby® Digital, dts®
- Used in pairs via one CAT5 cable to send digital audio signal up to 180meters.

**SAE02**
Stereo/Mini Stereo Audio CAT5 Extender
- Dual gold-plated RCA female + 3.5mm mini jack to RJ45.
- Choice of stereo audio or mini stereo audio by dip switch.
- Passive operation, no power need.
- Used in pairs via CAT5 cable to send stereo audio or mini stereo audio signal up to 600 meters.
- 20Hz to 20Khz -3db bandwidth.
- Hi Performance to eliminate the audio ground loop problem.

**SAE02GL**
Stereo Audio Ground Loop Isolator
- Stop the humm in your speakers.
- Provides superior audio performance.
- Totally preserves your audio signal.
- Breaks the electrical ground between audio components and no path for current flow.
- Compatible with all audio components.
- Ideal for multiple amplifier installations.

**SCE01**
Composite Video CAT5 Extender
- BNC Coax to RJ45 modular
- Passive, no power required.
- Used in pairs via CAT5 cable to send video signal up to 300 meters (color), 600 meters (B/W).
- For CCTV application.

Specification subject to change without notice.
**SCE01A**

Composite Video & Audio CAT5 Extender
- 3 RCA female to RJ45 female.
- Passive, no power required.
- Used in pairs via one CAT5 cable to send video and stereo audio up to 300 meters.
- Work with SCE09A CAT5 distribution amplifier, perfect for classrooms, conference centers and other applications that require multiple displays.

**SCE02A**

Dual Audio & Composite Video CAT5 Extender
- 4 RCA female to RJ45.
- Used in pairs via one CAT5 UTP cable to send dual video and audio up to 300 meters.
- Passive, no power required.
- Perfect for intercom, two way talk application.

**SSE01**

S-Video CAT5 Extender
- RJ45 female to 4-Pin mini din pigtail cable (for S-Video).
- Passive, no power required.
- Used in pairs via one CAT5 UTP cable to send S-Video up to 300 meters.
- Including one 20cm S-video cable for quicker movers, adds and changes, longer distance than S-video cable.

**SSE01A**

S-Video & Stereo Audio CAT5 Extender
- 2 RCA connectors (for stereo Audio) + 4-pin mini din (for S-Video) to RJ45 female.
- Passive, no power required.
- Used in pairs via one CAT5 UTP cable to send S-Video and stereo audio up to 300 meters.
- Ideal for classrooms, projectors, tradeshows and retail display using S-Video signal with audio.

**SCE09A (SDA109AV)**

1 Input 9 Output Composite Video & Stereo Audio CAT5 Distribution Amplifier
- Extends and distribute one composite video and stereo audio to 9 displays.
- Extends video signals up to 300 meters over CAT5 cable.
- Work with SCE01A as composite video & stereo audio CAT5 receiver at remote side.
- One loop output allows cascading connection several units for larger displays.
- Ideal for classrooms, lecture halls, point of purchase displays, conference centers and other applications that require multiple displays.
- CAT5 Receiver Option Model: SCE01A-S Composite Video & Audio CAT5 Receiver.
**SCD02D**

1 Input 2 Output Composite Video Distribution Amplifier with Digital/Optical Audio

- 1 x Input: composite video and left, right audio.
- 2 x Output: composite video and left, right audio.
- Cascade connection several units for larger displays with great picture quality.

**SCD04A**

1 Input 4 Output Composite Video Distribution Amplifier with Stereo Audio

- 1 x Input: composite video and left, right audio.
- 4 x Output: composite video and left, right audio.
- Cascade connection several units for larger displays with great picture quality.

**SCD04D**

1 Input 4 Output Composite Video Distribution Amplifier with Digital/Optical audio

- Identical to SCD04A, but digital/optical audio instead of stereo audio.

**SCD816AP**

8 Input to 16 Output Programmable AV Distribution Amplifier

- Professional version, configurable at 8 AV input/16 AV output by software, jumperless for easy setting.
- LED display and 4 buttons for setting, each operation.
- Each AV input (8) could set up “1-16” AV output.
- Built in memory function, no need resetting after power disconnection.
- Channel 16 including extra “switcher output” function.
- DWELL time adjustable at switcher mode (1~30 seconds).

**SCS04M**

4 Input 2 Output Composite Video Matrix Switcher With Stereo/Digital Audio

- Connect up to 4 A/V sources to two display monitors.
- 4 set S-Video Composite Video Analog Audio and Fiber Digital Audio input.
- 2 set S-Video Composite Video Analog Audio and Coax/Optical Digital Audio output.
- S-Video could be converting to composite video.
- Optical digital audio could be converting to coax digital audio.
- Each display can view any input independently.
- Built in auto scan switching input function, to automatically select the next one with the signal of the input.
- Built in auto jump function, to automatically select the new video input.
- Built in setup memory function.
- Built in 2 sets of 2 buttons for channel change.
- Easy to use front panel control of switching or using the included remote control.
- The switcher box is the ideal for all of devices, offering both video and audio switching capability.
- Remote Control Optional Model SCS04M:
  - SRC01: RS232 to UART
  - SRC02: RS485 to UART
  - SRC03: USB to UART
Component Video Audio CAT5 Extender

SYE01
Component Video (YPbPr) CAT5 Extender
- Passive, no power required.
- Used in pairs via one CAT5 cable to send component video up to 300 meters.
- Support up to HDTV (480i / 480p / 720p / 1080i / 1080p).
- Perfect for DVD, VCR, DVR, TV, Satellite receivers, monitors, home theatre and other equipments supporting component video.

SYE01D
Component Video (YPbPr) & Digital Audio/IR CAT5 Extender
- Identical to SYE01, but with digital Audio or IR pass through.
- Support up to HDTV (480i / 480p / 720p / 1080i / 1080p).
- Up to 300 meters for video and 180 meters for digital audio.

SYE01A
Component Video (YPbPr) & Stereo Audio CAT5 Extender
- Send Component Video (YPbPr) and stereo audio over one CAT5 cable.
- Passive, no power required.
- Support up to HDTV (480i / 480p / 720p / 1080i / 1080p).
- Transmission distance up to 300 meters at 480p / 480i.
- Transmission distance up to 100 meters at 1080p.
- Perfect for DVD, VCR, DVR, TV, Satellite receivers, monitors, home theatre and other equipments supporting component video.
- Compatible with wall plate type extender: SYW01A, SYW02A

SYE02DAL
1 in 2 Out Component Video & Stereo/Digital Audio CAT5 Extender - Chainable function
- Dual output: 1 Component Video loop output for local, plus 1 x CAT5 output for remote side.
- Supports high resolution up to 1080p.
- Long range transmission up to 300 meters (Max.)
- Built in equalization, gain adjustment, chainable CAT5 output at remote unit.
- Audio by digital encoding process for sound undistorted.
- CAT5 receiver option model: SYE02DALR, SYE02DALS
**SYE10DAL**

1 in 11 Out Component & Stereo/Digital Audio CAT5 Extender Distribution Amplifier In 1U Rack Mounting Panel

- Dual output: 1 Component Video loop output for local, plus 10 x CAT5 output for remote side.
- Built in one loop out allows cascading connection multi units for larger display system.
- Supports high resolution up to 1080p.
- Long range transmission up to 300 meters (Max.)
- Audio by digital encoding process for sound undistorted.
- CAT5 receiver option model: SYE02DALR, SYE02DALS

**SYE02DALR**

Component Video & Stereo/Digital Audio CAT5 Receiver – Chainable function

- Work with SYE02DALT as receiver for extra remote component video display equipment.
- It could be daisy chained for another SYE02DALR to extended working range over 300 meters and multiple displays.
- Built in equalization, gain adjustment.
- Built in LPCM 44.1K / 48K 16Bit stereo audio decode function, digital & analog audio could be output simultaneously.
- Support Dolby Digital (AC3) & DTS digital output.

**SYE02DALS**

Component Video & Stereo/Digital audio CAT5 Receiver – Built in Skew corrector

- Identical to the above SYE02DALR receiver, but built in skew corrector for the optimum video performance under long cable run.
- Built in chainable function.
Component Video Distribution Amplifier, Matrix Switcher

**SYD02A**
1 Input 2 Output Component Video Distribution Amplifier with Stereo Audio
- 1 x Input: component video and left, right audio.
- 2 x Output: component video and left, right audio.
- Video Bandwidth up to 400Mhz.
- Cascade connection several units for larger displays with great picture quality.

**SYD02D**
1 Input 2 Output Component Video Distribution Amplifier with Digital/Optical audio
- Identical to SYD02A, but digital/optical audio instead of stereo audio.

**SYD04A**
1 Input 4 Output Component Video Distribution Amplifier with Stereo Audio
- 1 x Input: component video and left, right audio.
- 4 x Output: component video and left, right audio.
- Video Bandwidth up to 400Mhz.
- Cascade connection several units for larger displays with great picture quality.

**SYD04D**
1 Input 4 Output Component Video Distribution Amplifier with Digital/Optical audio
- Identical to SYD04A, but digital/optical audio instead of stereo audio.

**SYS04A**
4 Input 2 Output Component Video Switcher With Stereo Audio
- HDTV Compatible at 480i/480p/720p/1080i/1080p.
- Connect up to 4 A/V sources to two display monitors.
- IR remote control included.

**SYS04D**
4 Input 2 Output Component Video Switcher With Digital Audio
- Identical to SYS04A, but with digital/optical audio instead of stereo audio.
SYS04MA
4 Input 2 Output Component Video Matrix Switcher With Stereo Audio
- Connect up to 4 A/V sources to two display monitors.
- Each display can view any input independently.
- Built in auto scan switching input function, to automatically select the next one with the signal of the input.
- Built in auto jump function, to automatically select the new video input.
- Built in setup memory function.
- Built in 2 sets of 2 buttons for channel change.
- Easy to use front panel control of switching or using the included remote control.
- Remote Control Optional Model for SYS04MA, SYS04MD, SCS04M

SRC01: RS232 to UART
SRC02: RS485 to UART
SRC03: USB to UART

SYS04MD
4 Input 2 Output Component Video Matrix Switcher With Digital Audio
- Identical to SYS04MA, but with digital audio (coax optical) instead of stereo audio.

Component Video Converter

SYH01
Component Video to HDMI Converter with Local loop Component output
- Convert component video (YPbPr) & stereo/digital (SPDIF) audio to HDMI display.
- Built in local component video loop output with stereo/Digital (SPDIF) audio.
- Encodes analog stereo audio or digital audio onto the video signal for HDMI video and audio.
- Supports HDTV resolution up to 1080p.
**AV, Component Video, VGA, HDMI**

**SCW01A**
Wall Plate Video & Stereo Audio CAT5 Extender
- Used in pairs via one CAT5 cable to send video and stereo audio up to 300 meters.
- Wall plate outer dimension: 115 x 71 mm.
- Passive, no power required.
- Perfect for integrated home entertainment application.

**SCW02A**
Wall Plate Video & Stereo Audio CAT5 Extender
- Identical to SCW01A, but wall plate outer dimension is 86 x 86 mm.

**SCW01AP**
Wall Plate Video, Audio, Power CAT5 Extender
- Used in pairs via one CAT5 cable to send video, audio and power up to 300 meters.
- Wall plate outer dimension: 115 x 71 mm
- 2 x RCA female for video and audio, 1 x DC jack for power.
- Passive, no power required.
- Perfect for integrated home security and entertainment application.

**SCW02AP**
Wall Plate Video, Audio, Power CAT5 Extender
- Identical to SCW01AP, but wall plate outer dimension is 86 x 86 mm.

**SYW01**
Wall Plate Component Video CAT5 Extender
- Used in pairs via one CAT5 cable to send component video up to 300 meters.
- Wall plate outer dimension: 115 x 71 mm
- Passive, no power required.
- Support up to HDTV (480i/480p/720p/1080i)
- Perfect for integrated home entertainment application.

**SYW02**
Wall Plate Component Video CAT5 Extender
- Identical to SYW01, but wall plate outer dimension is 86 x 86 mm.
**SYW01D**
Wall Plate Component Video & Digital Audio CAT5 Extender
- Identical to SYW01, but with digital audio.
- Up to 300 meters for video and 180 meters for digital audio.

**SYW02D**
Wall Plate Component Video & Digital Audio CAT5 Extender
- Identical to SYW01D, but wall plate outer dimension is 86 x 86 mm.

**SYW01A**
Wall Plate Component Video & Stereo Audio CAT5 Extender
- Identical to SYW01D, but with stereo audio instead of digital audio.
- Wall Plate outer dimension: 70 x 115.
- Compatible with metal box type SYE01A.

**SYW02A**
Wall Plate Component Video & Stereo Audio CAT5 Extender
- Identical to SYW01A, but wall plate outer dimension: 86 x 86 for European type.
- Compatible with metal box type SYE01A.

**SYW01HA**
Wall Plate Active Component Video & Stereo Audio CAT5 Extender
- Economic active type, with high quality
- Supports high resolution 1080p up to 70 meters.
- External power required at transmitter unit, no power requested at receiver unit.
- Wall Plate outer dimension: 70 x 115.

**SYW02HA**
Wall Plate Active Component Video & Stereo Audio CAT5 Extender
- Identical to SYW01HA, but wall plate outer dimension: 86 x 86 for European type.
**SVW01**
Wall Plate VGA CAT5 Extender
- Passive device, no power required.
- Supports up to 1280x1024 pixels.
- Wall plate outer dimension: 115 x 71 mm
- Up to 135 meters via 4pairs CAT5 cable instead of VGA cable.
- Compatible with metal box type SVE01P.

**SVW02**
Wall Plate VGA CAT5 Extender
- Identical to SVW01, but wall plate outer dimension is 86 x 86 mm.

**SVW01HA**
Wall Plate Hi Resolution VGA CAT5 Extender With Stereo Audio
- Active type, including SVW01HAT transmitter and SVW01HAR receiver.
- Built in stereo audio. Audio by digital encoding process for sound undistorted.
- Supports high resolution up to 1920 x 1200 at 70 meters.
- External power required at transmitter unit, no power requested at receiver unit.
- Wall Plate outer dimension: 70 x 115 mm.
- Compatible with metal box type SVE01HA.

**SVW02HA**
Wall Plate Hi Resolution VGA CAT5 Extender With Stereo Audio
- Identical to SVW01HA, but wall plate outer dimension: 86 x 86 mm for European type.
- Compatible with metal box type SVE01HA.
SHW01
Wall Plate HDMI & IR CAT5 Extender
- Extends HDMI and IR signal over two CAT5/5e/6 cables.
- Built in IR repeater function.
- Transmission range up to 60M at 1080i, 50M at 1080p resolution.
- HDMI 1.3a compatible, HDCP 1.1, support DDC, EDID, CEC, Hot Plug Detect.
- No power need within 30meters.
- External power supply requested at remote unit for transmission range over 30 meters.
- Wall Plate outer dimension: 70 x 115 mm.

SHW02
Wall Plate HDMI & IR Repeater CAT5 Extender
- Identical to SHW01, but wall plate outer dimension is 86 x 86 mm.

SHW01E
Wall Plate HDMI CAT5 Extender
- Extends HDMI signal over two CAT5/5e/6 cables.
- Transmission range up to 60M at 1080i, 50M at 1080p resolution.
- HDMI 1.3a compatible, HDCP 1.1, support DDC, EDID, CEC, Hot Plug Detect.
- No power need within 30meters.
- External power supply requested at remote unit for transmission range over 30 meters.
- Wall Plate outer dimension: 70 x 115 mm.

SHW02E
Wall Plate HDMI CAT5 Extender
- Identical to SHW01E, but wall plate outer dimension is 86 x 86 mm.
AV, Component Video Audio, VGA, HDMI

SAD001
Video to VGA Converter
- Special designed for computer VGA monitor, LCD color monitor.
- Support NTSC, PAL video system.
- Built in auto memory function.
- On screen display function: Brightness, Tint, Color, Contrast.
- Resolution: NTSC: 720 x 480 @ 60 Hz, PAL: 720 x 576 @ 50 Hz
- PAL, NTSC auto configure.

SAD001H
High Resolution Video to VGA Converter with BNC loop out
- Special designed for computer VGA monitor, LCD color monitor.
- Dual output: DB15 x 1 for VGA monitor and BNC x 1 for TV monitor.
- Support NTSC, PAL video system.
- Input video system 50 to 60Hz frame rate detection (NTSC/PAL).
- The DEINTERLACED and Scan rate conversion output mode: 800 x 600, 1024 x 768, up to 1280*1024@60Hz.
- Frequency output: 60Hz, 75Hz, 85Hz.
- On screen display function: Contrast, Brightness, Color, Tint, Features, Resolution.
- Built in ESD protection.
- Built in video auto gain control for good quality picture.

SAD001HH
High Resolution Video to VGA Converter with HDMI Output
- Special designed for computer VGA/ HDMI monitor, LCD color monitor.
- Composite video inputs via RCA, VGA and HDMI output.
- Support NTSC, PAL video system.
- Input video system 50 to 60Hz frame rate detection (NTSC/PAL).
- The DEINTERLACED and Scan rate conversion output mode: 640x480, 800x600, 1024x768, 1280x720, 1280x1024, 1920x1080@60Hz.
- Support HDMI output: 720P, 1080I, 1080P
- Built in stereo audio input and output.
- Frequency output: 60Hz, 75Hz, 85Hz.
- On screen display function; Brightness, Contrast, Saturation, Hue, Sharpness, Resolution.

SVC01
VGA to Video Converter
- Connects VGA output to existing TV or CRT monitor.
- Video standards: NTSC/NTSC-EIAJ/PAL/PAL-M/PAL-N/SECAM.
- Resolutions support: 640 x 480 (up to 85 Hz), 800 x 600 (up to 85 Hz) and 1024 x 768 (up to 75 Hz).
- Dual output ports: composite video (BNC connector), VGA (DB15).
- Image controls: Horizontal and vertical size, brightness, contrast, hue, saturation, sharpness and on screen display background.

Specification subject to change without notice.
SVH01
VGA to HDMI Converter with Local loop VGA Output
- Convert VGA & stereo/Digital (SPDIF) audio to HDMI display.
- Built in local VGA loop output with stereo/digital (SPDIF) audio.
- Supports PC resolution up to 1920 x 1080.
- Support HDMI & DVI output mode.
- Encodes analog stereo audio or digital audio onto the video signal for HDMI video and audio.

SYH01
Component Video to HDMI Converter with Local loop Component output
- Convert component video (YPbPr) & stereo/digital (SPDIF) audio to HDMI display.
- Built in local component video loop output with stereo/Digital (SPDIF) audio.
- Encodes analog stereo audio or digital audio onto the video signal for HDMI video and audio.
- Supports HDTV resolution up to 1080p.

SHV01
HDMI to VGA With Stereo Audio Converter
- Supports HDMI input and VGA with 3.5mm stereo audio output.
- Supports VGA resolutions up to 1920x1200.
- HDMI and DVI compliant, support DVI with a DVI to HDMI adapter.

SHY01
HDMI to Component Video With Stereo/Digital Audio Converter
- Supports HDMI input and component video with stereo/digital audio output.
- Support component video resolution up to 1080p.

SHD01
HDMI to DVI Converter
- HDMI 1.2a compatible.
- Fully HDCP compliant.
- HDMI video up to 165MHz.

SDH01
DVI & Audio to HDMI Converter
- HDMI 1.2a compatible.
- Fully HDCP compliant.
PTZ Receiver, RS232/485/422 Converter, Repeater, Extender

**SCR011N**
- **PTZ Receiver**
  - Built in PELCO D protocol
  - IP65 Weatherproof case
  - PAN & TILT control
  - Lens control: zoom, focus
  - 1 Auxiliary Relay provide for any desired functions: alarm, wash/wipers, lighting
  - Easy addressed code setting, 00-99
  - Allows the pan tilt power AC110V/220V/24V, zoom lens power DC12 or 6V (2A-Max.)
  - Support heavy duty Pan tilt working power up to 16 Amp (current)
  - Built in surge protection.

**Data Converter**

**SRS001**
- **RS232 to RS485 Converter**
  - DB9 female connector for RS232 to 2 wires terminal block for RS485.
  - Two wire, differential signals, half duplex.
  - Non power operation
  - Auto switching baud rate, speed up to 115.2kbps over a distance 1200 meters.
  - 32 units connected together in RS-485 multi drop operation.

**SRS001I**
- **RS232 to RS485 Converter-Isolation**
  - Identical to SRS001, but built in 3KV isolation protection.
  - External power adapter requested.

**SRS002**
- **RS232 to RS485/RS422 Bi-Directional Converter**
  - RS232 input option: DB9 or RJ11.
  - RS485/RS422 output option: terminal or RJ11.
  - RS232 to RS485 or RS232 to RS422 conversion.
  - Four full duplex wires; two half duplex wires.
  - Switch setting for full duplex or half duplex operation.
  - Supports transfer speeds of up to 115.2kbps.
  - Extends up to 1200 meters (under 100Kbps).
  - Support up to 32 units to be set in RS-485 multi drop installations.
  - Surge protection 16KV ESD.

**SRS002I**
- **RS232 to RS485/RS422 Bi-Directional Converter-Isolation**
  - Identical to SRS002, but without RJ11 output and built in 3KV isolation protection.
**SRS003**

**USB to RS485 Converter**
- USB to RS485 interface converter.
- Two wire, differential signals, half duplex.
- **Non power operation.**
- Auto switching baud rate, speed up to 115.2 Kbps over a distance 1200 meters.
- 32 units connected together in RS-485 multi drop installations.
- USB 2.0 compliant
- Powered by PC
- Connect/disconnect without reboot
- MAC OS 8.6 to 9.2 Compatible
- Software Drivers Included

**SRS003I**

**USB to RS485 Converter-Isolation**
- Identical to SRS003, but built in 3KV isolation protection.

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**SRS232U**

**USB to RS232 (Serial) Converter**
- USB to RS232 DB9 serial interface converter.
- Non power operation.
- Support RS232 transfer rate up to 115.2Kbps.
- USB 2.0 Compliant.
- Powered by PC.
- Connect/Disconnect Without Reboot.
- MAC OS 8.6 to 9.2 Compatible.

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**SRS001R**

**RS485 Data Repeater**
- Repeater from RS485 data signal to RS485 up to 1200 meters.
- Plug in screw terminal block for easy wiring.
- Power input from DC jack.
- Auto detected baud rate maximum up to 115.2 Kbps.
- Red Led: Power/RX
- Built in 2.5KV isolation protection.
- Surge protection.

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**SRE01 (SRS002E)**

**RS232 CAT5 Extender**
- Extends RS232 compliant devices up to 1200 meters at 57600 bps over one CAT5 cable.
- Easy plug and play installation.
- Speed up to 115.2Kbps.
- External power adapter requested at local unit.

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**RS485 Distributor**

**SRS004**

**RS485 Distributor 1 Input 4 Output**
- Input option: 1 x RS232, 2 x RS485 (3 input can be “stand by” status at the same time, but only one controller will be activated at once)
- Output: 4xRS485, each channel connection range up to 1200 meters by twisted pair cable.
- Built in surge protection at each channel.
- Each input/output is isolated.
- Ability to cascade connection to other units SRS004/SRS008/SRS016.
- The application gives serial data back on 4 outputs at the same time, to provide perfect configurations.

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**SRS008**

**RS485 Distributor 1 Input 8 Output In 1U Rack Mounting Panel**
- Identical to SRS004, but 1 input 8 output.

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**SRS016**

**RS485 Distributor 1 Input 16 Output In 1U Rack Mounting Panel**
- Identical to SRS004, but 1 input 16 output.
• Performs a different function than grounding requirements.
• Protects equipment from high voltage surges from nearby lightning strikes.
• Two stage protection: under 1ns – 90V, over 10ns-12V.
• Wide range of applications: CCTV/CATV system, antenna of television, FM receivers, video camera, monitors, multiplexers & quad processor, VCR, etc.

SSP001
Coaxial Video Surge Protector BNC Connector
• BNC male to BNC female, hi frequency for CCTV use.

SSP001P-AC110
AC Power Surge protection Device Terminal Connector
• Terminal connector to terminal connector.
• Application for protecting AC100-120V.
• Surge current capacity: 6000A (8x20uS).
• Surge voltage capacity: 6,000V (1.2uS x 50uS).

SSP001P-AC220
AC Power Surge protection Device Terminal Connector
• Terminal connector to terminal connector.
• Application for protecting AC220-240V.
• Surge current capacity: 6000A (8x20uS).
• Surge voltage capacity: 6,000V (1.2uS x 50uS).

SSP001P
Power Surge Protector
• 2 pin terminal for power input to 2 pin terminal for power output.
• Max power input AC40V(MAX), DC56V(MAX).
• Application for protecting camera power.
• Max current up to 2Amp.

SSP001VP
Video & Power Surge Protector
• Two stage protection: 130V, AC/DC12V.
• 3 pin terminal + BNC male to 2 pin terminal + BNC female.
• Max power input AC40V(MAX), DC56V(MAX).
• Max current up to 2Amp.

SSP001VPD
Video, Power, Data Surge Protector
• Identical to SSP001VP, but with Data protection.
• 5 pin terminal + BNC male to 4 pin terminal + BNC female.
• Max power input AC40V(MAX), DC56V(MAX).
• Max current up to 2Amp.
• Perfect for PTZ camera protection.

SSP002
Coaxial Surge Protector F Connector
• F male to F female, hi frequency for CCTV use.
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSP002VP</td>
<td>Video &amp; Power Surge Protector</td>
<td>Identical to SSP001VP, but with F connector instead of BNC.</td>
</tr>
</tbody>
</table>
| SSP003  | UTP Video Surge Protector RJ45 Connector                                     | RJ45 Jack to RJ45 Jack.  
|         |                                                                             | Two pairs protection (Blue pair and Brown pair).                         |
|         |                                                                             | Protects UTP twisted pair transmission products.                         |
| SSP004  | UTP Data Surge Protector Terminal Connector                                 | Terminal connector to terminal connector.                                 |
|         |                                                                             | Perfect for video or data signal protection.                             |
| SSP004VPD | UTP Video, Power, Data Surge Protector                                      | Terminal connector to terminal connector.                                 |
|         |                                                                             | Application for UTP cabling video, power, data protection.               |
|         |                                                                             | Could be two data, one power for access control application.             |
| SSP005  | Video & Data Surge Protector                                                 | BNC female + terminal to BNC female + terminal.                          |
|         |                                                                             | Perfect for speed dome camera & control signal.                          |
| SSP006  | Network Surge Protector                                                     | RJ45 Jack to RJ45 Jack.  
|         |                                                                             | Four pairs protection.                                                  |
|         |                                                                             | Perfect for IP camera, network, PC modem, server... protection.         |
|         |                                                                             | Protects CAT5 VGA extender or any computer equipments.                  |
| SSP006P | POE Surge Protector                                                         | RJ45 Jack to RJ45 Jack.  
|         |                                                                             | Power and signal line protection.                                       |
|         |                                                                             | 10/100 Base-T CAT5/CAT5e compatible.                                    |
|         |                                                                             | 802.3af POE (Power over Ethernet) compatible.                            |
|         |                                                                             | Protect POE (Power over Ethernet) camera, POE devices.                  |
| SSP007  | HD-SDI Surge Protector                                                       | BNC male to BNC female for HD CCTV use.                                 |
**SSP016C**
16 Channel Video Surge Protection for DVR in 1U Rack Mounting Panel
- For coaxial cable use, 16 BNC female to BNC female.
- Provide protection for DVR, multiplexers or any equipment with multiple video inputs.

**SSP016T**
16 Channel UTP Surge Protection for DVR in 1U Rack Mounting Panel
- For twisted pair cable use, 16 terminal connector to 16 terminal connector.
- Ideal for 16 channel video or data protection.

**SSP016N**
16 Channel Network Surge Protector for NVR in 1U Rack Mounting Panel
- Provide protection for NVR, network, PC modem, server or any computer equipment with multiple inputs protection.

**SSP016P**
16 Channel POE Surge Protector for POE Switch in 1U Rack Mounting Panel
- Protect 16 channel POE switch (Power over Ethernet).
- 10/100 Base-T CATS/CAT5e compatible.
- Support Mid-Span POE and End Span POE.
- 802.3af POE compatible.

| Specification | SSP001 | SSP002 | SSP003 | SSP004 | SSP005 | SSP006 | SSP006P | SSP016P-AC | SSP016P | SSP016P | SSP016P | SSP016T | SSP016P | SSP016N |
|---------------|--------|--------|--------|--------|--------|--------|--------|------------|--------|--------|--------|--------|--------|--------|--------|
| Surge Protection Attack Time | 1ns | | | | | | | | | | | | | |
| Maximum Surge Voltage | 4 kV | | | | | | | | | | | | | |
| Surge Life | 300 surges of 100Amps | | | | | | | | | | | | | |
| Normal Resistance Across Coax | 10,000 MD | | | | | | | | | | | | | |
| Surge Resistance | Approx. 0Ω | | | | | | | | | | | | | |
| Band Pass | 0-1 GHz | | | | | | | | | | | | | |
| Power Passing Capability | 1800 VAC, 65 Vrms at 0.5 Amps | 120 VAC, 220 VAC | 180 VAC | | | | | | | | | | | |
| Insertion Loss | Less than 0.2 dB | | | | | | | | | | | | | |
| Return Loss (75 ohms) | | | | | | | | | | | | | | 16dB
| Power Input | Max. 24VAC AC | 12V DC/5VDC DC | | | | | | | | | | | |
| Connectors | BNC | F | RJ45 Terminal | Terminal & BNC | RJ45 Terminal | Terminal & BNC | RJ45 Terminal | BNC | Terminal | RJ45 | | | |
| Dimensions (mm) | 78x25x25 | 78x25x25 | 85x25x25 | 65x25x25 | 87x67x27 | 87x67x27 | 87x67x27 | 87x67x27 | 87x67x27 | 87x67x27 | 87x67x27 | 87x67x27 | 87x67x27 | 87x67x27 |
| Weight (g) | 80 | 80 | 90 | 65 | 136 | 134 | 134 | 130 | 65 | 136 | 136 | 1200 | 1200 | 2200 |
**Video Ground Loop Isolator**

Video ground loop isolator could reduce “ground loop interference” with CCTV signals and can be easily installed in a new or added to existing systems. It is useful where a video signal is transmitted via cable between points with different ground potentials, the differences in ground potentials are typically caused by unbalanced power line loads.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGL001</td>
<td>Coaxial Video Ground Loop Isolator</td>
<td>• Prevents video-signal distortion caused by video ground loops.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Eliminates picture tearing, cross talk and rolling.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Prevents power cables laid by others interfering with the CCTV system.</td>
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<tr>
<td></td>
<td></td>
<td>• Built in TVS (Transient Voltage Suppressors) for surge protection.</td>
</tr>
<tr>
<td>SGB001</td>
<td>Coaxial Video Ground Loop Isolator Built in Video BALUN</td>
<td>• Identical to SGL001 ground loop isolator function.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Built in video BALUN, perfect to work with DVR to immunity DVR interference, for extra interference rejection.</td>
</tr>
<tr>
<td>SGP001</td>
<td>Twisted Pair Ground Loop Isolator Built in Video BALUN</td>
<td>• Identical to SGL001, but for twisted pair cable use.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Transmit a full motion monochrome video signal up to 600 meters, color video signal up to 300 meters.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Eliminate coaxial cable</td>
</tr>
<tr>
<td>SGL001H</td>
<td>High Performance Video Ground Loop Isolator</td>
<td>• High Performance to eliminate ground loop problem.</td>
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<td></td>
<td>• Low video loss, bandwidth: 20Hz-6MHz. +0/-3dB.</td>
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<tr>
<td>SGP001H</td>
<td>Twisted Pair Hi Performance Video Ground Loop Isolator</td>
<td>• Identical to SGL001H, but for twisted pair cable use.</td>
</tr>
</tbody>
</table>
**Video Transformer Filter**

“Impedance not matching” happened under long range cabling, or weak and strong differential signals into DVR would cause Video SYNC signal not balanced that results in picture “up-rolling”. For coaxial cabling, add SCB001VH (coaxial BALUN) for extra interference rejection; for twisted pair cabling, add SVB001.

**SCB001VH**

**Coaxial BALUN For DVR**
- Perfect work with DVR to immunity DVR interference.
- Built in a highly balanced mode of video transmission, which is immune to interference from these, and other sources of noise: Data signals, other video signals, nearby power, ringing telephones, fluorescent lights, transformers, and more...

**SVB001**

**Twisted Pair VIDEO BALUN**
- Eliminate interference under long range cabling caused by ‘Impedance Matching’, add SVB001 BALUN at “connecting point” between two-wire connections for compensation.
- Including 4 pieces UY connectors for connection.

**Hi Frequency Interference Blocker**

Block the interference from electromagnetic wave, high voltage electricity, wireless station, elevators, heavy power on industry,...etc

**SCHB001H (SCHB001HT + SCHB001HR)**
- Perfect to eliminate hi frequency interference.
- Video & audio over one coax cable.
- Working distance: 400 meters (RG59), 600 meters (RG6)
- S/N Ratio on video signal: 42dB, S/N ratio on audio signal: 40dB
- Including transmitter and receiver, two power adapter.
Power Converter & Distributor Box

PC500
AC to DC 12V Power Converter 500mA
- AC to DC 12V Power Converter with DC plug cable 500mA Max.
- Input power: AC15~26V, DC15~28V.
- Output Power: DC12V regulated.
- For DC type camera or video power sources convert using AC24V for professional CCTV Industry Installation.

PC500S
AC to DC 12V Power Converter 500mA Built in Surge Protection
- Identical to PC500, but built in surge protection at power input.

PC500-5V
AC to DC 5V Power Converter 500mA
- AC24V/DC12V to DC5V power converter with DC plug cable 500mA Max.
- Input power: AC8~26V, DC8~28V.
- Output Power: DC5V regulated.
- Application for sending computer accessories 5V power from power sources AC24V or DC12V.

PC1A
AC to DC 12V Power Converter 1000mA
- Identical to PC500, but with 1000mA max.
- Input power: AC18~26V, DC18~28V.
- Output Power: DC12V regulated.

PC1A-5V
AC to DC 5V Power Converter 1000mA
- AC24V/DC12V to DC5V power converter.
- Input power: AC8~26V, DC8~28V.
- Output Power: DC5V regulated.
- Application for sending computer accessories 5V power from power sources AC24V or DC12V.

PD009
1 Input to 9 Output Power Distributor Box
- Individually protected PTC*-type output fuse rated 1.1Amps@250VAC,AC to DC12V.
- Individual status LED indicators.
- Surge protected outputs.
- Supports up to 1-30VAC/VDC.
**SWP125000**
DC12V 5.0Amp Switching Power Supply
- 90V-240 VAC Input. 12VDC 5.0Amp regulated output.

**Rack Panel Mounting and Wall Mounting**

**PR801**
8 Amp 1 Port AC24V Power Supply in 1U Rack Mounting Panel
- 1 port power supply. AC120/230V to AC24V / 8A (Max) output.
- Built in “no fuse breaker” to avoid current overload.
- Toroidal transformer for high efficiency and low operating temperature.

**PR801-12R**
8 Amp 1 Port DC12V Regulated Power Supply in 1U Rack Mounting Panel
- 1 port power supply, switching regulated DC12V.

**PR816**
8 Amp 16 Port AC24V Power Supply in 1U Rack Mounting Panel
- 16 port power supply. AC120V/230V to AC24V /0.5A (Max) output.
- Each port output current 1.1Amp (Max).
- Built in “no fuse breaker” to avoid current overload.
- Built in PTC (positive temperature coefficient) fuse for short protection and auto rework on each port.
- Toroidal transformer for high efficiency and low operating temperature.

**PR816-12D**
8 Amp 16 Port DC12V NON-Regulated Power Supply in 1U Rack Mounting Panel
- 16 port power supply. AC120V/230V to DC12V(non-regulated) /0.5A (Max) output.
- Each port output current 1.1Amp (Max).
- Built in “no fuse breaker” to avoid current overload.
- Built in PTC (positive temperature coefficient) for short protection and auto rework on each port.
- Non-load output 17V.

**PR816-12R**
8 Amp 16 Port DC12V Regulated Power Supply in 1U Rack Mounting Panel
- 8 AMP Sixteen port power supply. AC120V/230V to DC12V Switching regulated output.
- AC120V/230V to DC12V Switching regulated output.
- Each port output current 1.1Amp (Max).
- Built in “no fuse breaker” to avoid current overload.
- Built in PTC (positive temperature coefficient) for short protection and auto rework on each port.

**PR1616-12R**
16Amp 16 Port DC12V Regulated Power Supply in 1U Rack Mounting Panel
- Identical to PR816-12R, but 16 AMP Sixteen port power supply.
- Built in fan at front and back panel each for low operating temperature.
PW408U
4 Amp 8 Port DC12V Regulated Power Supply Built in 3AMP Back up Battery
- Built in 12V 3.3AMP rechargeable sealed lead acid battery for power back.
- Wall mounting metal box
- Automatic switch over to stand-by battery when AC fails.
- LED color Indication on Battery: Green: battery full, Yellow: battery recharging, Red: loss of AC, stand-by battery supplying power, Flash Red: low battery.
- Application for Access Control.

PW408S
4 Amp 8 Port Dual Power Supply
- Dual power AC24V or DC12V selectable.
- Red LED for main power.
- Individual PTC 1.1Amp, 2.5A/4sec.[fuse on each output protection.
- Toroidal transformer for high efficiency and low operating temperature.
- Wall mounting metal box
- Overall Dimension: 224 x 200 x 60 mm

PW408S-12R
4 Amp 8 Port DC12V Regulated Power Supply
- Identical to PW408S, but with DC12V switching regulated power supply.

PW816S-AC24
8Amp 16 Port AC24V Power Supply
- AC24V, 8Amp 16 port
- Red LED for main power.
- Individual PTC 1.1Amp, 2.5A/4sec.[fuse on each output protection.
- Toroidal transformer for high efficiency and low operating temperature.
- Wall mounting metal box
- Overall Dimension: 224 x 200 x 60 mm

PW816S-12R
8Amp 16 Port DC12V Regulated Power Supply
- Identical to PW816S-AC24, but with DC12V switching regulated power supply.
**Wire**

**SWC414**
4 BNC MALE to 4 BNC MALE CABLE 100cm
- Ready made coax for quick installation, good for receiver side
  STP414V, SPP016, SPA008, SPA016, etc.

**SWC414-200**
4 BNC MALE to 4 BNC MALE CABLE 200cm
- Identical to SWC414, but 200 cm cable length.

**SWC111-30**
BNC MALE to BNC MALE RG59 CABLE 30cm
- Order by MOQ.

**SWC101-30**
BNC MALE to BNC FEMALE RG59 CABLE 30cm
- Order by MOQ.

**SWT104**
CAT5e UTP 4 Pairs Twisted Pair Cable
- CAT5e unshielded twisted pair 4 pairs cable. AWG24 solid anneals copper wire.
- 305 meters in one reel.

**SWT104P**
CAT5e UTP 4 Pairs Twisted Pair Cable With Power Cord
- CAT5e unshielded twisted pair 4 pairs cable. AWG24 Solid anneals copper wire.
- Power Cord: 0.75mm diameter
- 100 meters in one reel

**SWT104PE**
Outdoor Use CAT5e UTP 4 Pairs Twisted Pair Cable
- PE Jacket, messenger material: galvanized steel wire
- 500 meters in one reel.
- Steel wire (1.2mm)

**SWC001**
RG59/U Coaxial Cable
- RG59/U coaxial cable: AWG 22 solid anneal cooper wire. 75 ohms.
- 200 meters in one reel

**SWC001P**
RG59/U Coaxial Cable With Power Cord
- RG59/U coaxial cable: AWG 22 solid anneal cooper wire. 75 ohms.
- Power cord: 0.75mm diameter
- 100 meters in one reel.
**Tool**

**SAT001**
**Twisted Pair Tool Kit**
- Standard package include: ratchet modular connector crimping tool crimping tool, for 6P2C, 8P8C modular connectors stripper & punch down tool, universal coaxial crimping tool, RJ45 modular plug (8P8C round solid) x 50pcs, RJ45 protection cap x 20pcs
- Application: everything installers need for identifying, cutting, stripping and terminating twisted pair cable.

**SAT002**
**Remote Cable Tester**
- Connector: RJ45, USB, BNC (CAT 5/CATV/Cablemodem)
- LEDs Indications: Short LED (Red)
  - Connected/25ohms terminator (Green)
  - No-Parallel /50ohms terminator (Yellow)
  - No connection / No termination (Yellow)
  - Battery good / Battery low (Green/Yellow)
  - S, C/1,2,3,4,5,6,7,8, LEDs (Yellow)

**SAT005**
**Modular Crimping Tool**
- For 4,6,8 poles modular connector (RJ45, RJ22) ratchet type.
- This tool is for all necessary tools to cut, strip and crimp modular telephone wires.

**SAT006**
**Multi-Function Wire Stripper**
- The lightweight, compact stripper is simple to operate, provided multifunction and safety.
- Application for stripping coaxial cable and UTP/STP cable.

**SAT007**
**Splice & crimp tool for SAP007 UY connectors**
- Designed to seat UG, UR and UY connectors.
- A special stop behind cutout prevents damage to connectors.

**SAT008**
**Coaxial Crimping Tool**
- Application for crimping RG59, RG6 cable.
SAT009
Coaxial Tool Kit
- Standard package include:
  rotary cable stripper for coaxial cable RG58,59,6,62
  coaxial cable cutter 6.5” 1 cuts wire O.D. up to 0.41” (10.5mm)
  professional ratchet type crimping tool for coaxial connector RG58,59,6
  BNC male crimp 3 piece type x 20 pieces
- Application: everything installers need for cutting, stripping and terminating coaxial cable.

SAT012
Compression Tool for SPBC01 compression connector
- Application for crimping RG59, RG6, F, RCA, waterproof connectors

Parts

SAP001
Modular RJ45 Plug (3Prongs)
- 8 position 8 contact round solid
- 100 pieces in one bag.

SAP002
RJ45 Protection Cap
- Provide 5 color for easy identification.
- Red, green, yellow blue, grey 20pcs of each color in one bag (total 100pcs)

SAP007
3M Brand UY connector
- Handle 22 to 26AWG solid copper wire (100piece/box)
- Self-stripping, insulated and moisture – resistant butt connector for 2 wire
  solid copper conductor combinations for 22-26 AWG (0.65-0.4mm)
  having maximum Insulation O.D. of 060 inches (1.52mm).

SAP008
DC Plug to Terminal Block
- DC plug (male) to removable terminal block.
- Small size for tight spaces.
- 2.1mm DC plug.
- 10 pieces in one bag.

SAP008-F
DC Jack to Terminal Block
- Identical to SAP008, but with DC Jack (female) instead of Terminal block.
Connectors  (Pack:100pcs/per bag)

**SPBC01**  BNC Compression Waterproof
- **RG6U**
- **RG59**

**SPBT11**  BNC Male Twist On
- **RG6U**
- **RG59**

**SPBC13**  BNC Male Crimp 3 Piece Type
- **RG6U**
- **RG59**

**SPBC13-SDI**  BNC Male Crimp 3 Piece Type
- **RG6U**
- **RG59**

**SPB012**  BNC Male Solderless
- **RG6U**
- **RG59**

**SPBC12**  BNC Male Quick Crimp
- **RG6U**
- **RG59**

**SPB310**  BNC Male to T Adapter BNC Female
- **RG6U**
- **RG59**

**SPBR01**  BNC Female to RCA Male
- **RG6U**
- **RG59**

**SPBR10**  BNC Male to RCA Female
- **RG6U**
- **RG59**

**SPBR11**  BNC Male To RCA Male
- **RG6U**
- **RG59**

**SPFT11**  F Male Twist on
- **RG6U**
- **RG59**

**SPFC12**  F Male Crimp Two Piece Type
- **RG6U**
- **RG59**

**SPBF10**  BNC Male to F Female
- **RG6U**
- **RG59**

**SPBB00**  BNC Female to BNC Female
- **RG6U**
- **RG59**

**SAP009**  DC plug to strip end power cord 15cm
- **NEW**

**SAP009-F**  DC Jack to strip end power cord 15cm
- **NEW**

Specification subject to change without notice.
<p>| PC1A       | 56   | SAT007   | 60   | SDD04D  | 29   | SHV01   | 20/47 |
| PC1A-5V    | 56   | SAT008   | 60   | SDE01   | 28   | SHW01   | 45    |
| PC500      | 56   | SAT009   | 61   | SDE01E  | 28   | SHW01E  | 45    |
| PC500-5V   | 56   | SAT012   | 61   | SDE01ERK| 28   | SHW02   | 45    |
| PC500S     | 56   | SCA101   | 34   | SDE01U  | 28   | SHW02E  | 45    |
| PD009      | 56   | SCA101A  | 34   | SDE03   | 28   | SHY01   | 20/47 |
| PR1616-12R| 57   | SCA101VH | 34   | SDH01   | 30/47| SIE01   | 18    |
| PR801      | 57   | SCA404   | 34   | SDP016  | 6    | SIP01   | 12    |
| PR801-12R  | 57   | SCB001VH | 55   | SDP414VP| 4    | SIP01H  | 12    |
| PR816      | 57   | SCD02D   | 37   | SDR01   | 30   | SIP01K  | 12    |
| PR816-12D  | 57   | SCD04A   | 37   | SDS02   | 29   | SIP02   | 12    |
| PR816-12R  | 57   | SCD04D   | 37   | SDS02A  | 29   | SIP02P  | 12    |
| PW408S     | 58   | SCD102   | 32   | SDS02D  | 30   | SIP03   | 13    |
| PW408S-12R| 58   | SCD102A  | 32   | SDS04   | 30   | SIP04   | 13    |
| PW408U     | 58   | SCD104   | 32   | SDS04A  | 30   | SIP05   | 14    |
| PW816S-12R| 58   | SCD108   | 32   | SDS04D  | 30   | SIP05H  | 14    |
| PW816S-AC24| 58    | SCD116   | 33   | SEP01   | 13   | SIP06   | 14    |
| SAA001     | 31   | SCD1632A | 34   | SGB001  | 54   | SKM01   | 21    |
| SAA002     | 31   | SCD1664  | 34   | SGL001  | 54   | SKM02   | 21    |
| SAA003     | 31   | SCD408   | 32   | SGL001H | 54   | SKM03   | 22    |
| SAD001     | 27/46| SCD408A  | 32   | SGP001  | 54   | SPA008  | 9     |
| SAD001H    | 27/46| SCD816   | 33   | SGP001H | 54   | SPA008H | 9     |
| SAD001HH   | 27/46| SCD816A  | 33   | SHD01   | 20/47| SPA016  | 9     |
| SAE01      | 35   | SCD816AP | 37   | SHD02   | 19   | SPA016A | 9     |
| SAE01D     | 35   | SCD816P  | 33   | SHD04   | 19   | SPA016H | 9     |
| SAE01-T    | 35   | SCE01    | 35   | SHE01C  | 19   | SPB012  | 62    |
| SAE02      | 35   | SCE01A   | 36   | SHE01E  | 17   | SPB310  | 62    |
| SAE02GL    | 31/35| SCE02A   | 36   | SHE01EI | 17   | SPBB00  | 62    |
| SAP001     | 61   | SCE09A   | 36   | SHE01S  | 17   | SPBC01  | 62    |
| SAP002     | 61   | SCHB001H | 55   | SHE01SER| 17   | SPBC12  | 62    |
| SAP007     | 61   | SCS04M   | 37   | SHE01SLR| 17   | SPBC13  | 62    |
| SAP008     | 61   | SCW01A   | 42   | SHE02   | 18   | SPBC13-SDI| 62   |
| SAP008-F   | 61   | SCW01AP  | 42   | SHE02E  | 18   | SPBF10  | 62    |
| SAP009     | 62   | SCW02A   | 42   | SHE02EI | 18   | SPBR01  | 62    |
| SAP009-F   | 62   | SCW02AP  | 42   | SHE03L  | 19   | SPBR10  | 62    |
| SAT001     | 60   | SDA102   | 8    | SHE04M  | 19   | SPBR11  | 62    |
| SAT002     | 60   | SDD02A   | 29   | SHR01   | 20   | SPBT11  | 62    |
| SAT005     | 60   | SDD02D   | 29   | SHS04   | 20   | SCR011N | 48    |
| SAT006     | 60   | SDD04A   | 29   | SHS07   | 20   | SPFC12  | 62    |</p>
<table>
<thead>
<tr>
<th>Index</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SPFT11</td>
<td>62</td>
<td>51</td>
<td>SP001VPD</td>
<td>51</td>
</tr>
<tr>
<td>SPN002</td>
<td>11</td>
<td>51</td>
<td>SP002</td>
<td>51</td>
</tr>
<tr>
<td>SPN009</td>
<td>10</td>
<td>52</td>
<td>SP002VP</td>
<td>52</td>
</tr>
<tr>
<td>SPN012C</td>
<td>10</td>
<td>52</td>
<td>SP003</td>
<td>52</td>
</tr>
<tr>
<td>SPN012-C</td>
<td>10</td>
<td>52</td>
<td>SP004</td>
<td>52</td>
</tr>
<tr>
<td>SPN012T</td>
<td>10</td>
<td>52</td>
<td>SP004VPD</td>
<td>52</td>
</tr>
<tr>
<td>SPN012-T</td>
<td>10</td>
<td>52</td>
<td>SP005</td>
<td>52</td>
</tr>
<tr>
<td>SPP016</td>
<td>5</td>
<td>15/52</td>
<td>SP006</td>
<td>15/52</td>
</tr>
<tr>
<td>SPP016D</td>
<td>5</td>
<td>15/52</td>
<td>SP006P</td>
<td>15/52</td>
</tr>
<tr>
<td>SPP016GB</td>
<td>5</td>
<td>16/52</td>
<td>SP007</td>
<td>16/52</td>
</tr>
<tr>
<td>SPP016-RJ45</td>
<td>5</td>
<td>53</td>
<td>SP016C</td>
<td>53</td>
</tr>
<tr>
<td>SPP016VPD</td>
<td>6</td>
<td>15/53</td>
<td>SP016N</td>
<td>15/53</td>
</tr>
<tr>
<td>SRA111VH</td>
<td>10</td>
<td>15/53</td>
<td>SP016P</td>
<td>15/53</td>
</tr>
<tr>
<td>SRB01</td>
<td>26</td>
<td>53</td>
<td>SP016T</td>
<td>53</td>
</tr>
<tr>
<td>SRE01</td>
<td>50</td>
<td>13/22</td>
<td>SSR01</td>
<td>13/22</td>
</tr>
<tr>
<td>SRN012</td>
<td>10</td>
<td>16</td>
<td>SSR02</td>
<td>16</td>
</tr>
<tr>
<td>SRP414VH</td>
<td>10</td>
<td>7</td>
<td>STA111AV</td>
<td>7</td>
</tr>
<tr>
<td>SRS001</td>
<td>48</td>
<td>7</td>
<td>STA111V</td>
<td>7</td>
</tr>
<tr>
<td>SRS001I</td>
<td>48</td>
<td>8</td>
<td>STA111VH</td>
<td>8</td>
</tr>
<tr>
<td>SRS001R</td>
<td>49</td>
<td>7</td>
<td>STA111VHA</td>
<td>7</td>
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<td>48</td>
<td>11</td>
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<tr>
<td>SRS002I</td>
<td>48</td>
<td>8</td>
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<tr>
<td>SRS003</td>
<td>49</td>
<td>11</td>
<td>STA414VPDR</td>
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</tr>
<tr>
<td>SRS003I</td>
<td>49</td>
<td>8</td>
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<td>49</td>
<td>3</td>
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<td>26</td>
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<td>36</td>
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<td>36</td>
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<td>51</td>
<td>3</td>
<td>STP111VP3K</td>
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</tr>
<tr>
<td>SSP001P</td>
<td>51</td>
<td>2</td>
<td>STP111VPC</td>
<td>2</td>
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<tr>
<td>SSP001P-AC110</td>
<td>51</td>
<td>2</td>
<td>STP111VPD</td>
<td>2</td>
</tr>
<tr>
<td>SSP001P-AC220</td>
<td>51</td>
<td>11</td>
<td>STP111VPDC</td>
<td>11</td>
</tr>
<tr>
<td>SSP001VP</td>
<td>51</td>
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<tr>
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