

MEDIA CONVERTER SOLUTIONS

EXTEND AND CONVERT INTERFACE,
SIGNALS FOR ETHERNET NETWORK



- Media Chassis
- Media Converter
- Industrial Media Converter

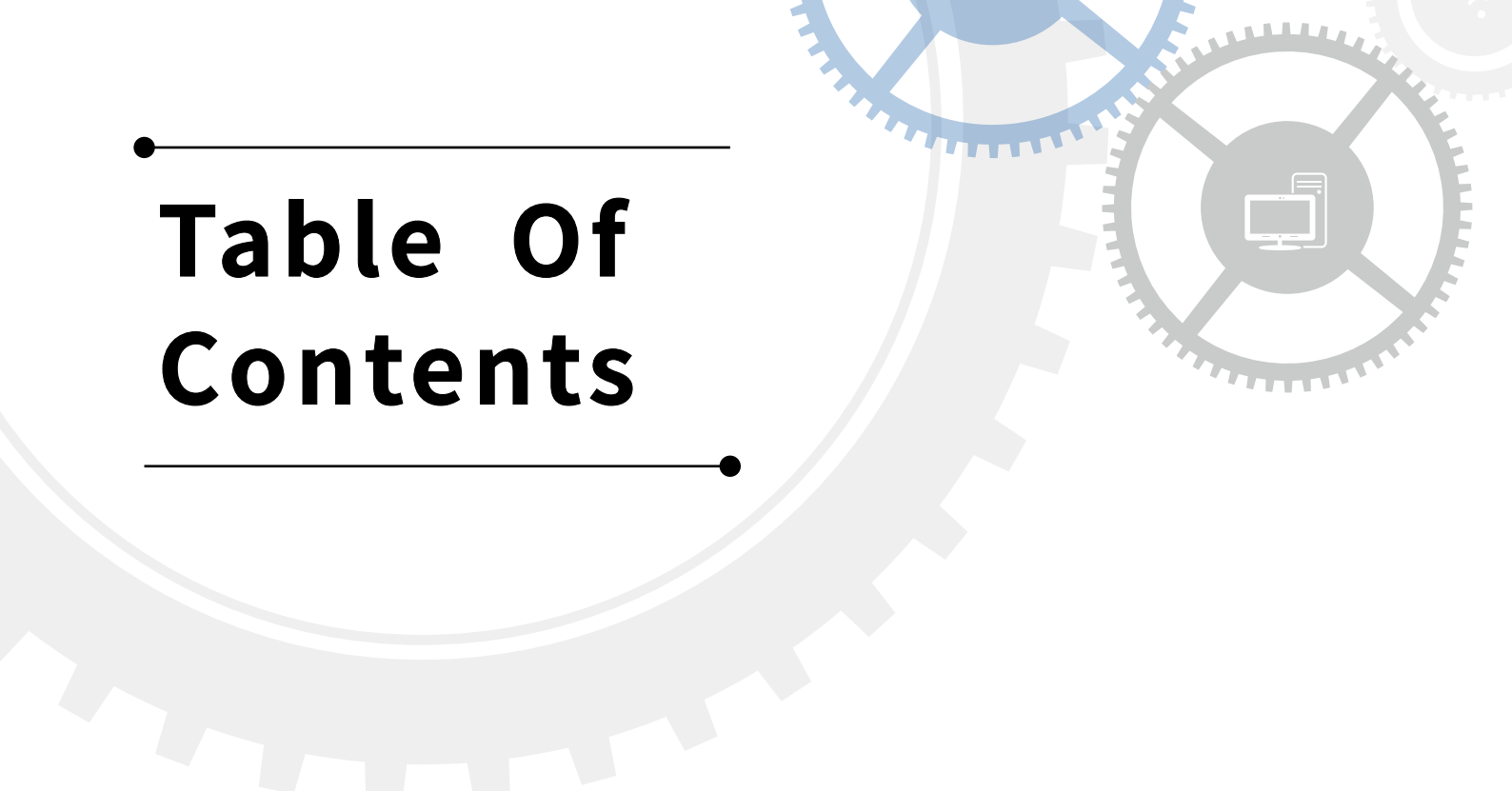


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Fiber Media Converter Solutions

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Industrial Media Converter Solutions

Industrial Level Solution (-40~75°C)

- Industrial 60W PoE++ Media Converter 15
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Professional Network Solution Provider

Founded in 1998, Connection Technology System Inc. (CTS) consists of a group of design, technical, and marketing professionals with diverse backgrounds in the communication field and focuses on the professional FTTX and Industrial networking solutions to telcos, network operators, and broadband service providers all over the world. In 2017, with the advantages and experiences accumulated from FTTX markets, CTS launched SIMPNiC* to dedicate to the most cutting-edge IoT integrated solutions to meet the trend of smart living.



CTS
CONNECTION TECHNOLOGY SYSTEMS

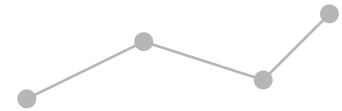
FTTX, Industrial
Network Solutions

SIMPNIC

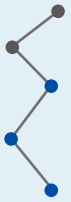
IoT Integrated Solutions

(*www.simpnic.com)

About CTS



In close cooperation with our partners, CTS has achieved:



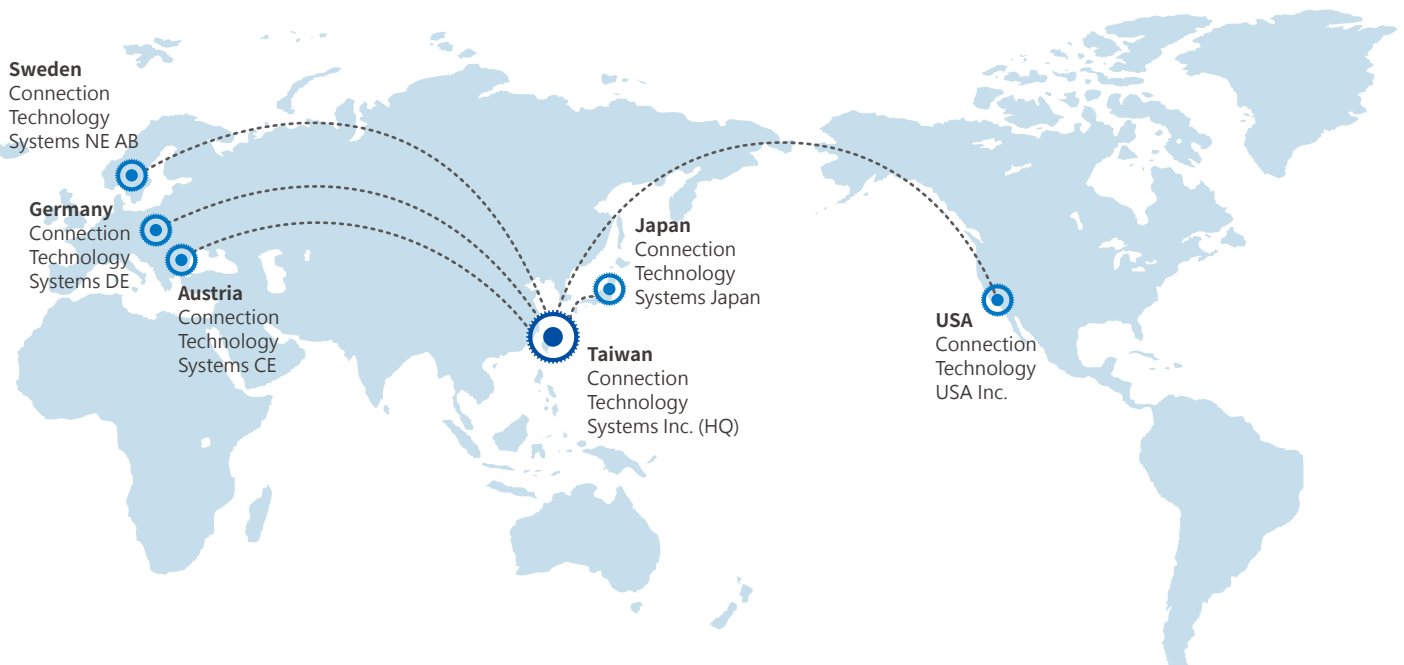
Over **1,4 Million** FTTX Last Mile Deployments

Over **750,000** Fiber Ethernet Connectivity Deployments

Over **100,000** FTTB Access-Side Deployments

With in-house design capability and over 20 years of FTTX domain knowledge, CTS has been a reliable partner who always acts proactively to understand customers needs in order to provide the most innovative and valuable solution. While our business is growing in different parts of the world, CTS established local branches in Sweden, USA, Japan and Austria since 2010 to provide fast and efficient response as well as to form a deeper understand and closer relationship with regional markets.

Throughout the past two decades, CTS has seamlessly teamed up with our customers and delivered a wide range of professional fiber connectivity solutions. We will continue to keep our customer in mind and think steps-ahead to develop flexible, high-quality and efficient solutions that create the most value to our customers around the world.

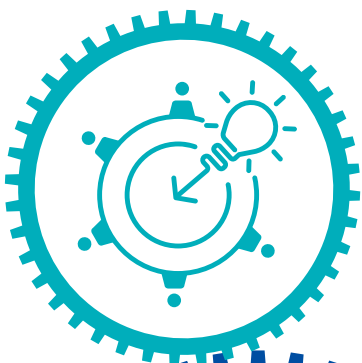


Why CTS



The Spirit of Pursuing Excellence

For CTS, our achievement is defined by each successful story our customers have experienced. Until this day, with 20 years experiences in the field, CTS' innovative spirit and passion still driving the company to pursue excellence. Through continuously interact with the clients and the markets, CTS has insisted on keeping "Differentiation and Glocalization" which has make us one of the leading solution providers for telecom companies, network operators, and broadband service providers all over the world.



Networking Consultant

- With more than 20 years of FTTX experiences, our " Smart-consult Team" combines the best of CTS members who work closely with customers.
- Local professional team in CTS branches offers quick and regional-specific assist and allows us to response value-added information and can think steps ahead.



In-house Designer

- With the ability to design and manufacture by ourselves, CTS continuously pursues to optimize the solution for better fiber connectivity deployment and future applications.
- Conscientiously research on the market in order to create innovative differentiations to fulfill the ever-growing expectation from the customers worldwide.



Trustworthy Partner

- CTS is not just a vender but partner to our client because we always keep our customer's goal in mind to develop the most fitted solution.
- 0.07% DOA rate is a result of CTS' high-standard quality control program that demonstrate throughout the design, manufacturing, customer service process.

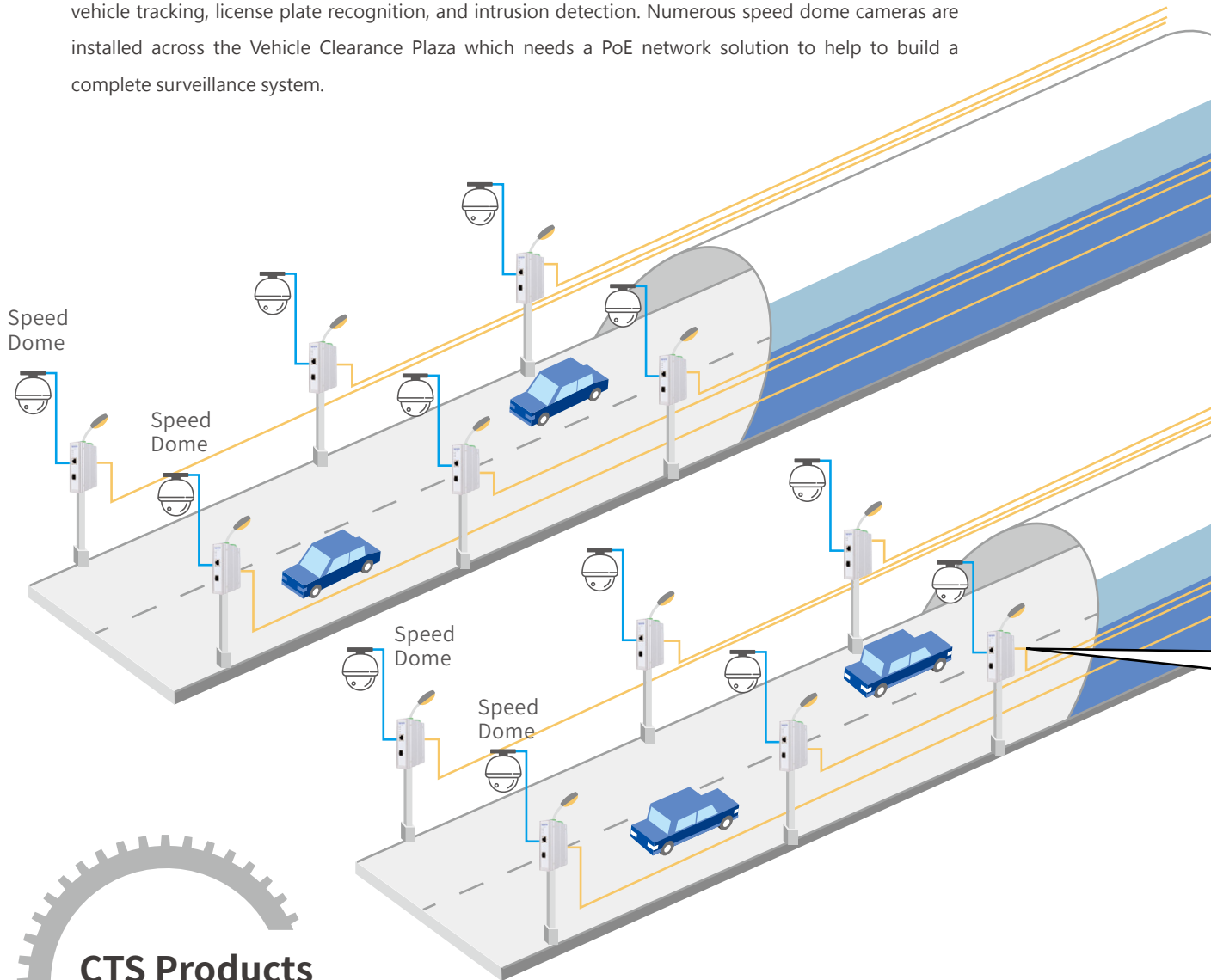


CTS Industrial Media Converter Is Adopted by Hong Kong Border Facility



Background

Hong Kong Boundary Crossing Facilities (HKBCF) is the immigration and customer check point on the Hong Kong–Zhuhai–Macau Bridge. To meet security requirements and provide convenient services to motorists and passengers, HKBCF deployed state of the art Automatic Vehicle Clearance System (AVCS) for vehicle tracking, license plate recognition, and intrusion detection. Numerous speed dome cameras are installed across the Vehicle Clearance Plaza which needs a PoE network solution to help to build a complete surveillance system.

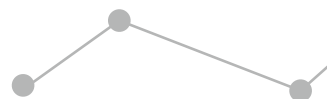


CTS Products



IPC-3012-PoE++

1-Port SFP to 1-Port **60W PoE++** Gigabit Industrial Media Converter



Challenge

- ① Speed dome camera require 60W power input.
- ② Outdoor site on an artificial island with subtropical climate.
- ③ Frequent thunder storm on site.
- ④ Required 24/7 non-stop surveillance network.

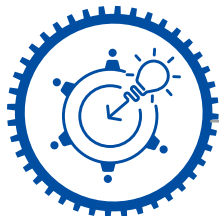
Solution & Benefit

- ① IPC-3012-PoE++ compatible with IEEE 802.3af/at PoE+ and up to 60W power output.
- ② Able to operate smoothly in outdoor, marine, hot and humid environments.
- ③ 6KV Surge Immunity on copper ports prevent devices from damage.
- ④ Dual power input (12~57VDC) and built-in power booster to ensure non-stop and stable power supply to the connected cameras.



12~57 VDC Power Input
60W PoE Power Output
6KV Surge Protection
-40~75 Degrees Celsius

IPC-3012-PoE++



Networking Consultant

Our professional sales and technical team helped client looking for the best fitted solution.



Trustworthy Partner

The CTS in-house design and production team ensure the top-notch quality.



In-house Designer

Providing the reliable product that helps the customer achieve their goal more effectively.



Extension and Expansion for Point-to-Point Solutions

In an ever-growing world of internet, media conversion is important for interconnecting two source of services. For CTS, it's our job to simplify data transportation and create seamless connection between different devices. MCT/CVT Media Converters series are flexible and cost-effective solution for implementing and optimizing fiber links to copper link in all types of networks.

With centralized Media Chassis – MCT/CVT-RACK Series, the stand-alone, plug-and-play MCT/CVT Media Converters can easily expand the fiber-optic networks. The wiring distance of MCT/CVT-RACK Series can extend from 2 to 120km and the transmission distance is up to 120km.

- 10G Solution for 10G SFP+ to 10G SFP+ or 10G SFP+ to 100M/1G/2.5G/5G/10G N-Base-T
- Gigabit Solution for 100/1000Base-X SFP to 100/1000Base-X SFP or 1G SFP to 10/100/1000Base-T
- WEB UI and SNMP v1/v2c Management Interface for Managed Media Converter
- Plug and Play 2/16/18-Slots Media Chassis
- 12/18-Slots Managed Media Chassis via WEB UI, CLI, Telnet, SSH and SNMP v1/v2c Management Interface



Robust, Reliable and Extensible Solution to Reach Copper Devices Effortlessly



**-40~75
Degrees
Celsius**



IAC-3012



**60W PoE
Output**



IPC-3012-PoE++



Dual Fiber

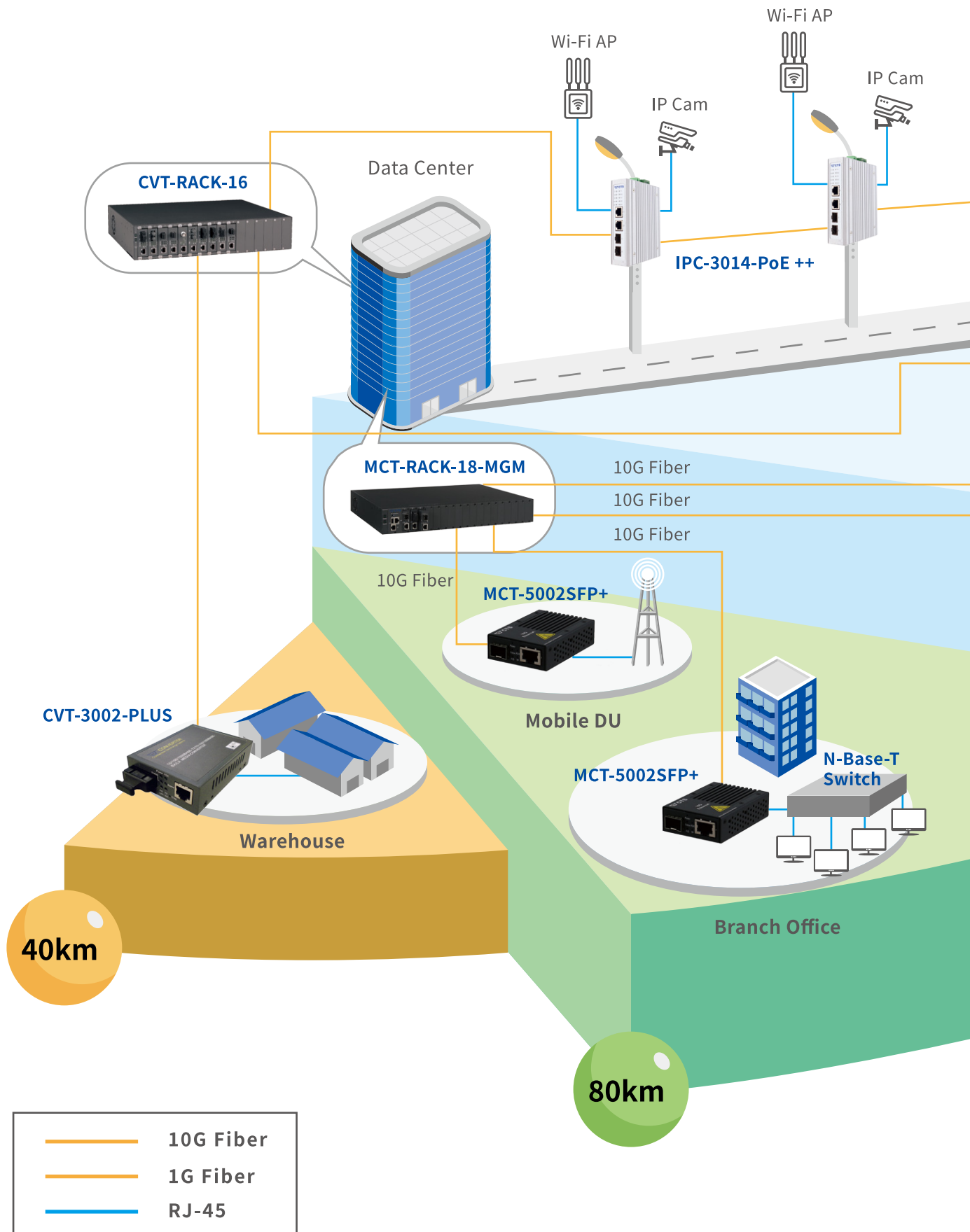


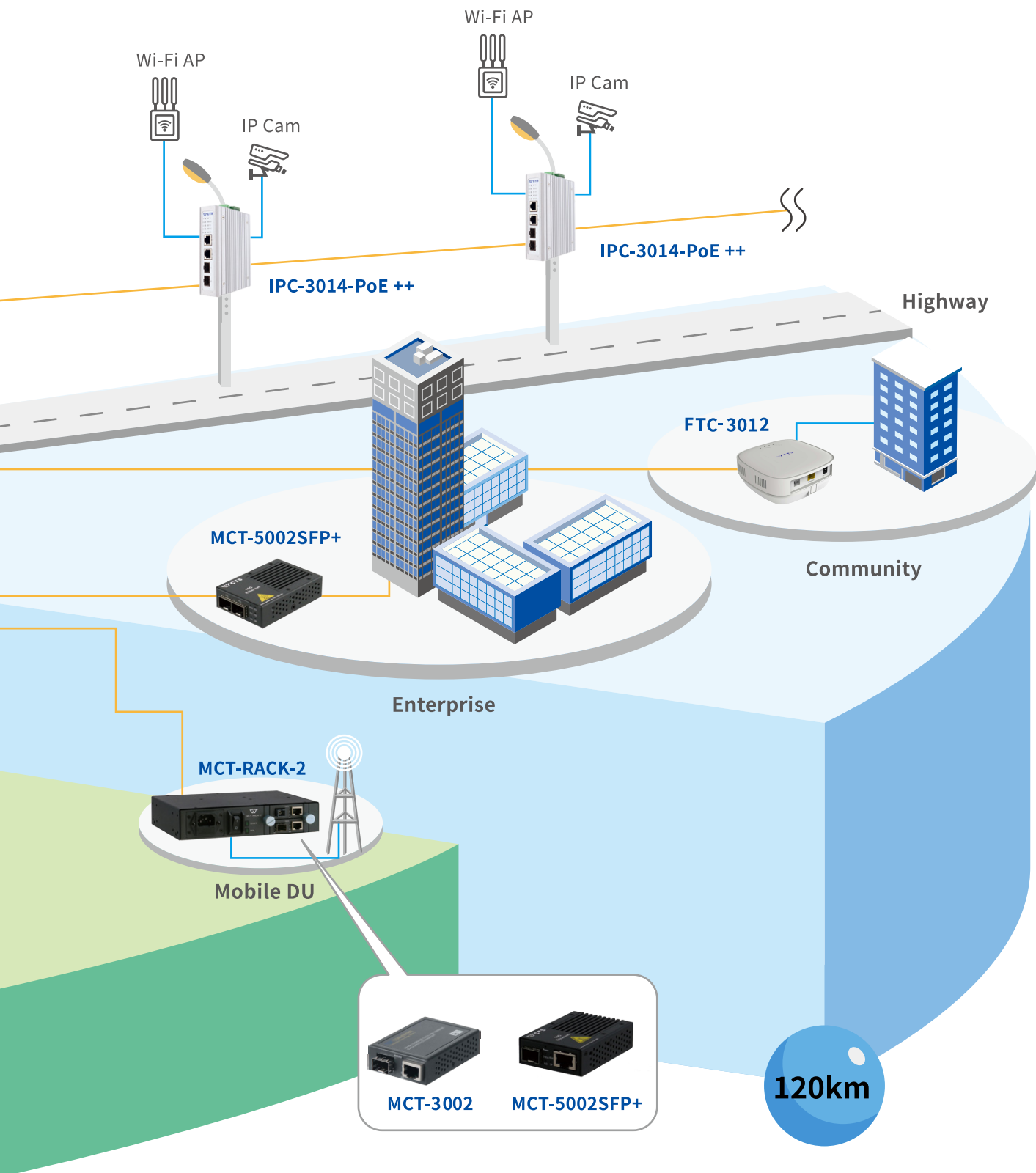
IPC-3014-PoE++

CTS Industrial Media Converters in robust IP30 housing are designed to meet the demands of industrial network plug-and-play usage. Industrial Media Converters can extend your Ethernet network beyond 100-meter limitation and convert fiber links from multi-mode to single-mode or vice versa. The wiring distance of CTS Industrial Media Converters can extend from 2 to 120km and data transmission distance is up to 120km.

- IP30 Slim Design Housing
- -40~75 Degrees Celsius Operating Temperature for Harsh Operating Environment
- 12~48/12~57VDC Dual Power Input for Uninterrupted Network System
- 1/2-port Copper to 1/2-port Fiber-optic Interface
- Supports 1/2-port PoE Injector
- Supports IEEE 802.3at/af PoE and 60W PoE++ Power Output
- Built-in DIP Switch Provides Port Isolation and Fiber Redundancy Mode

Application of Media Converter Solutions





Compact Media Converter Chassis

| Model Name | MCT-RACK-18-MGM Managed | MCT-RACK-12-MGM Managed | MCT-RACK-18 Non-managed | MCT-RACK-2 Non-managed |
|------------|----------------------------|----------------------------|----------------------------|---------------------------|
|------------|----------------------------|----------------------------|----------------------------|---------------------------|

Product Image



| | | | | | |
|----------------------------------|----------------------------------|---|-------------------|-------------------------------|-------------------------------|
| Hardware | Chassis Slots | 18 | 12 | 18 | 2 |
| | Dimension W x D x H | 440 x 340 x 66 mm | 440 x 340 x 44 mm | 440 x 340 x 66 mm | 210 x 160 x 44 mm |
| | Operating Temperature (Humidity) | 0~50°C (5~90%) | | | |
| | Power Source | 2 x Hot Swappable 100~240VAC/48VDC | | 2 x Fixed 100~240VAC/48VDC | 1 x Fixed 100~240VAC/48VDC |
| | Power Consumption (Full Load) | 35W | 26W | 33W | 16W |
| Management & Features | Converter Modules | MCT-5002FSMSFP+, MCT-5002SFP+, MCT-3512, MCT-3002, MCT-100 Series | | | |
| | Management Port | 1 x 10/100Base-T RJ-45 1 x RS-232 to RJ-45 Console | | - | |
| | USB Port | 1 x USB 2.0 (Type A) | | - | |
| | Digital Input/Output | 1/1 | | - | |
| | Management | Telnet, CLI, WEB, SNMP v1/v2c/v3 | | - | |
| | SNMP Power Down Trap | • | | - | |
| | SNTP | • | | - | |
| Firmware/Configuration Upgrade | FTP/TFTP/HTTP | | - | | |
| Certifications | EMC/Safety | FCC Class A, CE | | | |

Media Converter Chassis

| Model Name | CVT-RACK-16 Non-managed | CVT-RACK-16S Non-managed |
|------------|----------------------------|-----------------------------|
|------------|----------------------------|-----------------------------|

Product Image



| | | | |
|-----------------------|----------------------------------|--|-------------------------------|
| Hardware | Chassis Slots | 16 | 16 |
| | Dimension W x D x H | 440 x 385 x 88mm | 440 x 280 x 88mm |
| | Operating Temperature (Humidity) | 0~50°C (5~90%) | |
| | Power Source | 2 x Hot Swappable 100~240VAC/48VDC | 1 x Fixed 100~240VAC/48VDC |
| | Power Consumption (Full Load) | 98W | 95W |
| | Hot Swappable FAN Number | 3 | - |
| | Converter Modules | CVT-5002SFP+, CVT-3002, CVT-100 Series | |
| Certifications | EMC/Safety | FCC Class A, CE | |

10G Media Converter

| | | | |
|------------|--------------------------------|-----------------------------|-----------------------------|
| Model Name | MCT-5002FSMSFP+ Non-managed | MCT-5002SFP+ Non-managed | CVT-5002SFP+ Non-managed |
|------------|--------------------------------|-----------------------------|-----------------------------|

Product Image



| | | | | |
|----------------------------------|----------------------------------|--------------------|-----------------|-----------------|
| Hardware | 10G SFP+ | 2 | 1 | 2 |
| | 10G N-Base-T* | - | 1 | - |
| | Store and Forward | - | • | - |
| | Auto-MDI/MDI-X | - | • | - |
| | Auto-negotiation in TP Port | - | • | - |
| | Flow Control | - | | - |
| | MAC Address Table | - | | - |
| | Memory Buffer | - | 128K Bytes | - |
| | Jumbo Frame | | 9K Bytes | |
| | Slide-in Chassis | | MCT-RACK Series | CVT-RACK Series |
| | Dimension W x D x H | | 51 x 74 x 20mm | |
| | Operating Temperature (Humidity) | | 0~50°C (5~90%) | |
| | Power Source | | 12VDC | |
| | Power Consumption | 6.5W | 8W | 4.3W |
| Management & Features | IEEE 802.3ah OAM | - | | - |
| | TS-1000 Loopback Test | Passive Loopback | | - |
| | QoS | - | | - |
| | QoS Priority Queue | - | | - |
| | Bandwidth Control | - | | - |
| | VLAN | - | | - |
| | VLAN ID | - | | - |
| | VLAN Groups | - | | - |
| | Management | In Rack Management | | - |
| | SNMP Power Down Trap | - | | - |
| | DHCP | - | | - |
| | Link Fault | Signal Loss Alarm | | Link Alarm |
| Firmware Upgrade | In Rack | | - | |
| Certifications | EMC/Safety | FCC Class A, CE | | |

* 100M/1G/2.5G/5G/10G N-Base-T RJ-45 interface

1G Media Converter

| | MCT-3512* | MCT-3002 | MCT-3002-PLUS |
|------------|--------------|-------------|------------------|
| Model Name | MCT-3512-DR* | MCT-3002-DR | MCT-3002-PLUS-DR |
| | Managed | Non-managed | Non-managed |

Product Image



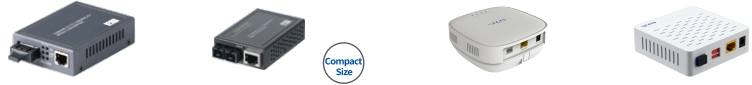
| | | | | | |
|-----------------------|----------------------------------|---|------------------|------------------|------|
| Hardware | 10/100/1000Base-T | 1 | 1 | 1 | |
| | 10/100Base-TX | - | - | - | |
| | 1000Base-X | 1 (BTFX/W2X/SFP) | 1 (BTFX/W2X/SFP) | 1 (BTFX/W2X/SFP) | |
| | 100Base-FX | Compatible | Compatible | Compatible | |
| | Store and Forward | | • | | |
| | Auto-MDI/MDI-X | | • | | |
| | Auto-negotiation in TP Port | | • | | |
| | Flow Control | | - | • | |
| | MAC Address Table | | 2K | | |
| | Memory Buffer | | 128K Bytes | 64K Bytes | |
| | Jumbo Frame | | 9K Bytes | 9K Bytes | |
| | Slide-in Chassis | | MCT-RACK Series | CVT-RACK Series | |
| | Dimension W x D x H | | 51 x 74 x 20mm | 71 x 94 x 26mm | |
| | Operating Temperature (Humidity) | | 0~50°C (5~90%) | | |
| | Power Source | | 3.3VDC | 5VDC | |
| | Power Consumption | | 2.5W | 2.3W | 1.5W |
| | Management & Features | IEEE 802.3ah OAM | • | - | - |
| TS-1000 Loopback Test | | - | - | - | |
| QoS | | - | - | - | |
| QoS Priority Queue | | - | - | - | |
| Bandwidth Control | | • | - | - | |
| VLAN | | 802 1q, Q-in-Q | - | - | |
| VLAN ID | | 4094 | - | - | |
| VLAN Groups | | 8 | - | - | |
| Management | | In Rack Management Remote Management** | - | - | |
| SNMP Power Down Trap | | - | - | - | |
| DHCP | | - | - | - | |
| Link Alarm | | - | - | • | |
| Firmware Upgrade | In Rack | - | - | | |
| Certifications | EMC/Safety | FCC Class A, CE | | | |

* MCT-3512/MCT-3512-DR support Link Pass Through

** Must be used with another MCT-3512 in a managed MCT-RACK

| | 100M Media Converter | | Home Size Media Converter | |
|------------|----------------------|-------------|--------------------------------|-------------|
| Model Name | CVT-100 | MCT-100 | FTC-3012-DR-DS* FTC-3012-DR | HMC-3012 |
| | Non-managed | Non-managed | Non-managed | Non-managed |

Product Image



| | | | | | |
|----------------------------------|----------------------------------|-----------------|------------------|------------------|----------------|
| Hardware | 10/100/1000Base-T | - | - | 1 | 1 |
| | 10/100Base-TX | 1 | 1 | - | - |
| | 1000Base-X | - | - | 1 (W2A) | 1 (W2A) |
| | 100Base-FX | 1 (BTFX/W2X) | 1 (BTFX/W2X/SFP) | Compatible | Compatible |
| | Store and Forward | • | | | |
| | Auto-MDI/MDI-X | • | | | |
| | Auto-negotiation in TP Port | • | | | |
| | Flow Control | • | - | | |
| | MAC Address Table | 2K | | | |
| | Memory Buffer | 64K Bytes | 128K Bytes | | |
| | Jumbo Frame | 9K Bytes | | | |
| | Slide-in Chassis | CVT-RACK Series | MCT-RACK Series | - | - |
| | Cable Tray | - | - | Built-in | - |
| | Dimension W x D x H | 71 x 94 x 26mm | 51 x 74 x 20mm | 150 x 150 x 53mm | 88 x 88 x 27mm |
| | Operating Temperature (Humidity) | 0~50°C (5~90%) | | | |
| | Power Source | 5VDC | 3.3VDC | 12VDC | 12VDC |
| | Power Consumption | 1.5W | 2.1W | 2.04W | 2.04W |
| Management & Features | IEEE 802.3ah OAM | - | | | |
| | TS-1000 Loopback Test | - | | | |
| | QoS | - | | | |
| | QoS Priority Queue | - | | | |
| | Bandwidth Control | - | | | |
| | VLAN | - | | | |
| | VLAN ID | - | | | |
| | VLAN Groups | - | | | |
| | Management | - | | | |
| | SNMP Power Down Trap | - | | | |
| | DHCP | - | | | |
| | Link Alarm | • | • | - | - |
| Firmware Upgrade | - | | | | |
| Certifications | EMC/Safety | FCC Class A, CE | | | |

*Equipped with a 4-Pin DIP switch

Industrial 60W PoE++ Media Converter (-40~75°C)

| | | |
|------------|-------------------------------|-------------------------------|
| Model Name | IPC-3014-PoE++ Non-managed | IPC-3012-PoE++ Non-managed |
|------------|-------------------------------|-------------------------------|

Product Image



| | | | |
|-----------------|----------------------------------|--|---|
| Hardware | 10/100/1000Base-T | 2 | 1 |
| | 1000Base-X | 2 | 1 |
| | 100Base-FX | Compatible | Compatible |
| | Digital Output | | • |
| | PoE | 1 x 60W PoE++ + 1 x 802.3af/at PoE+ | 1 x 60W PoE++ or 1 x 802.3af/at PoE+ |
| | PoE Budget (Max.) | 90W | 60W |
| | Power Connector | Terminal Block | |
| | Power Source | 12~57VDC Dual Input | |
| | Power Consumption | 96W | 64.8W |
| | Store and Forward | | • |
| | Auto-MDI/MDI-X | | • |
| | Auto-negotiation in Fiber Port | | • |
| | MAC Address Table | 2K | |
| | Memory Buffer | 128K Bytes | |
| | Jumbo Frame | 9K Bytes | |
| | Link Alarm | | •* |
| | Dimension W x D x H | 36 x 110 x 135mm | |
| | Operating Temperature (Humidity) | -40~75°C (5~90%) | |
| | Network Redundancy | Fiber Backup Mode | - |
| | Certifications | EMC/Safety | FCC Class A, CE |
| Stability | | IEC 60068-2-27 (Shock), IEC 60068-2-32 (Freefall), IEC 60068-2-6 (Vibration) | |
| Surge | | ITU-T K.21 Enhanced Level 6KV | |

* Customer should inform CTS before manufacturing if they request for adding link alarm function

Industrial Media Converter (-40~75°C)

| | | |
|-------------------|-------------------------|-------------------------|
| Model Name | IAC-3014 Non-managed | IAC-3012 Non-managed |
|-------------------|-------------------------|-------------------------|

Product Image



| | | | |
|-----------------------|----------------------------------|--|------------|
| Hardware | 10/100/1000Base-T | 2 | 1 |
| | 1000Base-X | 2 | 1 |
| | 100Base-FX | Compatible | Compatible |
| | Digital Output | • | |
| | Power Connector | Terminal Block | |
| | Power Source | 12~48VDC Dual Input | |
| | Power Consumption | 4.8W | 3.4W |
| | Store and Forward | • | |
| | Auto-MDI/MDI-X | • | |
| | Auto-negotiation in Fiber Port | • | |
| | MAC Address Table | 2K | |
| | Memory Buffer | 128K Bytes | |
| | Jumbo Frame | 9K Bytes | |
| | Link Alarm | •* | |
| | Dimension W x D x H | 36 x 110 x 135mm | |
| | Operating Temperature (Humidity) | -40~75°C (5~90%) | |
| | Network Redundancy | Fiber Backup Mode | - |
| Certifications | EMC/Safety | FCC Class A, CE | |
| | Stability | IEC 60068-2-27 (Shock), IEC 60068-2-32 (Freefall), IEC 60068-2-6 (Vibration) | |
| | Surge | ITU-T K.21 Enhanced Level 6KV | |

* Customer should inform CTS before manufacturing if they request for adding link alarm function

10G Ethernet SFP+ Transceiver

Product Image



| MODEL | SFP-51 | | | | | |
|---------------------|---------------|------|-----------|----------|------------------------------|-------------|
| | Specification | | | | | |
| | Speed (Gbps) | Type | Connector | Distance | Wavelength (nm) | Temperature |
| SFP-51FC | 10 | MM | LC | 300M | 850 | 0~70°C |
| SFP-51FC(SM-10/20) | 10 | SM | LC | 10/20KM | 1310/1310 | 0~70°C |
| SFP-51W2A(SM-10/20) | 10 | WDM | LC | 10/20KM | TX:1270/1270 RX:1330/1330 | 0~70°C |
| SFP-51W2B(SM-10/20) | 10 | WDM | LC | 10/20KM | TX:1330/1330 RX:1270/1270 | 0~70°C |

Gigabit Ethernet SFP Transceiver

Product Image



| MODEL | SFP-31-DR | | | | | |
|------------------------|---------------|------|-----------|----------|------------------------------|-------------|
| | Specification | | | | | |
| | Speed (Mbps) | Type | Connector | Distance | Wavelength (nm) | Temperature |
| SFP-31FC-DR | 100/1000 | MM | LC | 2KM/550M | 1310 | 0~70°C |
| SFP-31FC(SM-10)-DR | 100/1000 | SM | LC | 10KM | 1310 | 0~70°C |
| SFP-31W2A(SM-10/20)-DR | 100/1000 | WDM | LC | 10/20KM | TX:1310/1310 RX:1550/1550 | 0~70°C |
| SFP-31W2B(SM-10/20)-DR | 100/1000 | WDM | LC | 10/20KM | TX:1550/1550 RX:1310/1310 | 0~70°C |

| MODEL | SFP-31 | | | | | |
|---------------------|---------------|------|-----------|----------|------------------------------|-------------|
| | Specification | | | | | |
| | Speed (Mbps) | Type | Connector | Distance | Wavelength (nm) | Temperature |
| SFP-31FC | 1000 | MM | LC | 550M | 850 | 0~70°C |
| SFP-31FC(SM-10/20) | 1000 | SM | LC | 10/20KM | 1310/1310 | 0~70°C |
| SFP-31W2A(SM-10/20) | 1000 | WDM | LC | 10/20KM | TX:1310/1310 RX:1550/1550 | 0~70°C |
| SFP-31W2B(SM-10/20) | 1000 | WDM | LC | 10/20KM | TX:1550/1550 RX:1310/1310 | 0~70°C |

Gigabit Ethernet SFP Transceiver

| MODEL | SFP-31-D | | | | | |
|-----------------------|---------------|------|-----------|----------|------------------------------|-------------|
| | Specification | | | | | |
| | Speed (Mbps) | Type | Connector | Distance | Wavelength (nm) | Temperature |
| SFP-31FC-D | 1000 | MM | LC | 550M | 850 | -40~85°C |
| SFP-31FC(MM-02)-D | 1000 | MM | LC | 2KM | 1310 | -40~85°C |
| SFP-31FC(SM-10/20)-D | 1000 | SM | LC | 10/20KM | 1310/1310 | -40~85°C |
| SFP-31W2A(SM-10/20)-D | 1000 | WDM | LC | 10/20KM | TX:1310/1310 RX:1550/1550 | -40~85°C |
| SFP-31W2B(SM-10/20)-D | 1000 | WDM | LC | 10/20KM | TX:1550/1550 RX:1310/1310 | -40~85°C |

Lightning Protector

Product Image



| MODEL | LPB-101 | | | | | | |
|------------|--------------|--------------|------------|-------------|-------------|------------------------|---|
| | Copper Port | | | | Temperature | Dimension W x D x H | Note |
| | Speed (Mbps) | Type | Input Port | Output Port | | | |
| LPB-101G-P | 10/100/1000 | RJ-45 w/ PoE | 1 | 1 | 0~50°C | 70 x 25 x 25mm | It is necessary to be grounding properly when implementing. |
| LPB-101G | 10/100/1000 | RJ-45 | 1 | 1 | 0~50°C | 70 x 25 x 25mm | |

External Battery Unit

Product Image



| MODEL | EBU-120 | | | | | | |
|---------|----------|--------------------------------------|----------|---------------------------------|------------------------------|-------------|------------------------|
| | DC Input | External Battery (Recommended Spec.) | | Charging/Backup (for reference) | | Temperature | Dimension W x D x H |
| | Voltage | Type | Capacity | Charging Time | Backup Time | | |
| EBU-120 | 12V | VRLA | 12V/2.3h | 7hrs | 2.2hrs (for HES-3109SSFP) | 0~50°C | 124 x 70 x 30mm |

Power Supply

Product Image



| MODEL | Output | | | Input Voltage Range | Protection | Temperature | Dimension W x D x H |
|------------|-------------|------------------------|---------------|-------------------------|---|-------------|------------------------|
| | Rated Power | Voltage Adj. Range* | Current Range | | | | |
| SDR-480-48 | 480W | 48~55V | 0~10A | 90~264VAC 127~370VDC | Overload, Over Voltage, Over Temperature | -25~70°C | 85.5 x 128.5 x 125.2mm |
| SDR-240-48 | 240W | | 0~5A | 88~264VAC 124~370VDC | | | 63 x 113.5 x 125.2mm |
| SDR-120-48 | 120W | | 0~2.5A | | | | 40 x 113.5 x 125.2mm |
| SDR-75-48 | 76.8W | | 0~1.6A | | | | 32 x 102 x 125.2mm |
| NDR-480-48 | 480W | 48~55V | 0~10A | 90~264VAC 127~370VDC | Overload, Over Voltage, Over Temperature | -20~70°C | 85.5 x 128.5 x 125.2mm |
| NDR-240-48 | 240W | | 0~5A | | | | 63 x 113.5 x 125.2mm |
| NDR-120-48 | 120W | | 0~2.5A | | | | 40 x 113.5 x 125.2mm |
| NDR-75-48 | 76.8W | | 0~1.6A | | | | 32 x 102 x 125.2mm |
| MDR-60-48 | 60W | 48~56V | 0~1.25A | 85~264VAC 120~370VDC | Overload, Over Voltage | -20~70°C | 40 x 100 x 90mm |
| MDR-20-12 | 20W | 10.8~13.2V | 0~1.67A | | | -20~70°C | 22.5 x 100 x 90mm |



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Connection Technology Systems Inc. (HQ)

18F-6, No. 79, Sec 1, Xintai 5th Rd.,
Xizhi Dist., New Taipei City 221, Taiwan
Sales Direct Line: +886-2-26989201
E-mail: info@ctssystem.com

Connection Technology Systems NE AB

August Barks Gata 21,
421 32 Västra Frölunda, Sweden
Tel: +46-31-221980
E-mail: info@ctssystem.se

**Connection Technology Systems Central
Europe (COMPONET Handels GmbH)**

Hirschstettner Straße 19-21/Stiege I
A-1220 Vienna, Austria
Tel: +43-1-235 05 66-0
E-mail: cts_ce@ctssystem.com

Connection Technology Systems Japan

Higobashi Bldg, No3 R201, 1-23-13, Edobori,
Nisi-ku, Osaka 550-0002, Japan
Tel: +81-6-6450-8890
E-mail: cts_japan@ctssystem.com

Connection Technology USA Inc.

40538 La Purissima Way, Fremont, CA 94539,
USA
Tel: +1-510-509-0304
Sales Direct Line: +1-510-509-0305
E-mail: cts_us@ctssystem.com

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