

MEDIA CONVERTER SOLUTIONS

EXTEND AND CONVERT INTERFACE,
SIGNALS FOR ETHERNET NETWORK



- Media Chassis
- Fiber Media Converter
- Rugged & Industrial Media Converter

CTS

About CTS	-----03
Why CTS	-----04
Success Case	-----05

Fiber Media Converter Solutions

Chassis

• Compact Media Converter Chassis	-----11
• Media Converter Chassis	-----11

Standalone Media Converter

• 10G Compact Media Converter	-----12
• 10G Media Converter	-----13
• 1G Compact Media Converter	-----14
• 1G Media Converter	-----14
• 100M Media Converter	-----15
• Home Size Media Converter	-----15

Rugged/Industrial Media Converter Solutions

Rugged Media Converter

• Rugged 10G Media Converter	-----16
• Rugged 1G Media Converter	-----17

Industrial Media Converter

• Industrial Force 60W PoE Media Converter	-----18
• Industrial Media Converter	-----19



Accessory

SFP/SFP+ Transceiver

• 10G Ethernet	-----20
• Gigabit Ethernet	-----20
• Copper Ethernet	-----21
• Industrial 10G Ethernet	-----21
• Industrial Gigabit Ethernet	-----21

Lightning Protector

• Lightning Protector	-----22
-----------------------	---------

External Battery Unit

• External Battery Unit	-----22
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Industrial Power Supply

• Industrial Power Supply	-----22
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About CTS

- CTS is a leading network solution provider headquartered in Taiwan. We are professional in design and manufacture products for the Last Mile Connectivity. With branch offices in Japan, Sweden, Austria, India, and the U.S., we aim to develop solutions to achieve sustainability, and grow together with partners worldwide.
- Founded in 1998, public since 2015
- 142 employees internationally, 20% belong to R&D
- 350+ Customers in over 40 countries
- 97.8% Customer Satisfaction

Our Mission

Find the market gap from user scenario and application

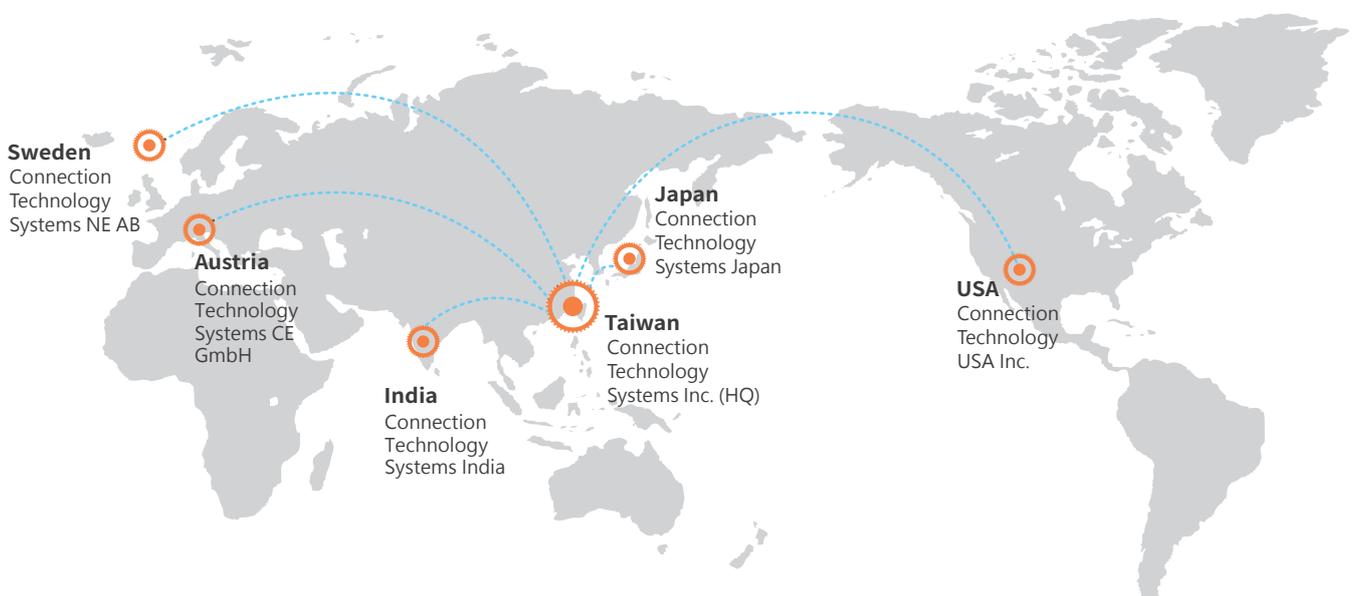
Design reliable products that connect people at the Last Mile

Fulfill customer demands with differentiated and sustainable solutions

Sustainability

We provide reliable and sustainable solution for our customers so they can use for a long time, reducing the waste of our planet. We also adhere to the most stringent global compliance standards.

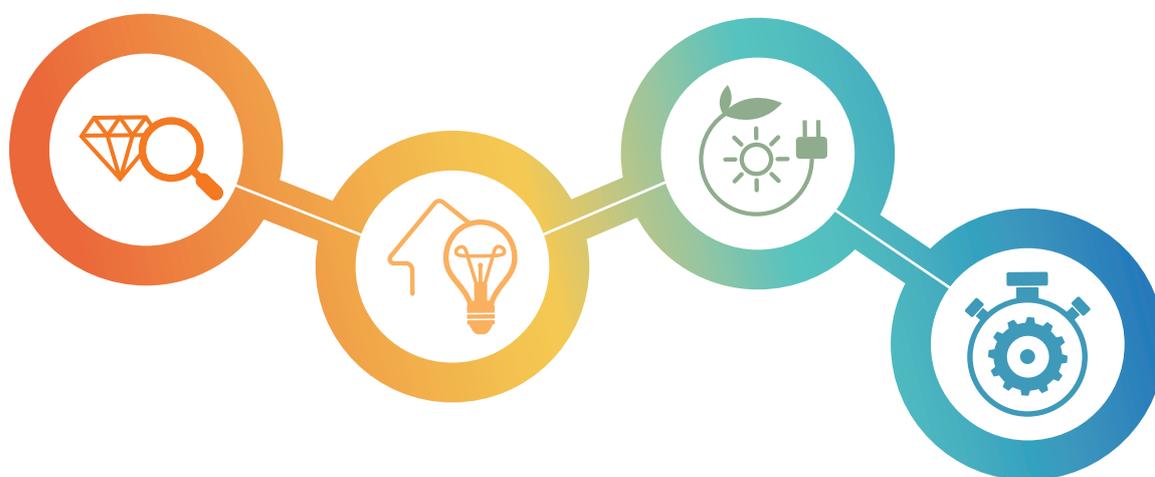
CTS acknowledges the importance of the UN Sustainable Development Goals (SDGs) and we've integrated into our business strategy. We've started to work with our suppliers and partners on the GHGs and PCF. We plan to release sustainability report to our stakeholders every year.



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.



Quality Assurance

Engineering Design

- SW/HW Collaboration
- Design Verification Test
- Design for Manufacturing
- Solution & Risk Analysis

Own Production

- Made in Taiwan
- IQC/PQC/FQC/OQC
- First Pass Yield
- Dynamic Burn-in Test

Reliability Test

- High Temperature Operating
- High Temperature Storage
- Damp Heat Cycling Test
- Accelerated Aging Test
- MTBF with MIL-HDBK-217F
- ISO 9001, 14001, CE, FCC

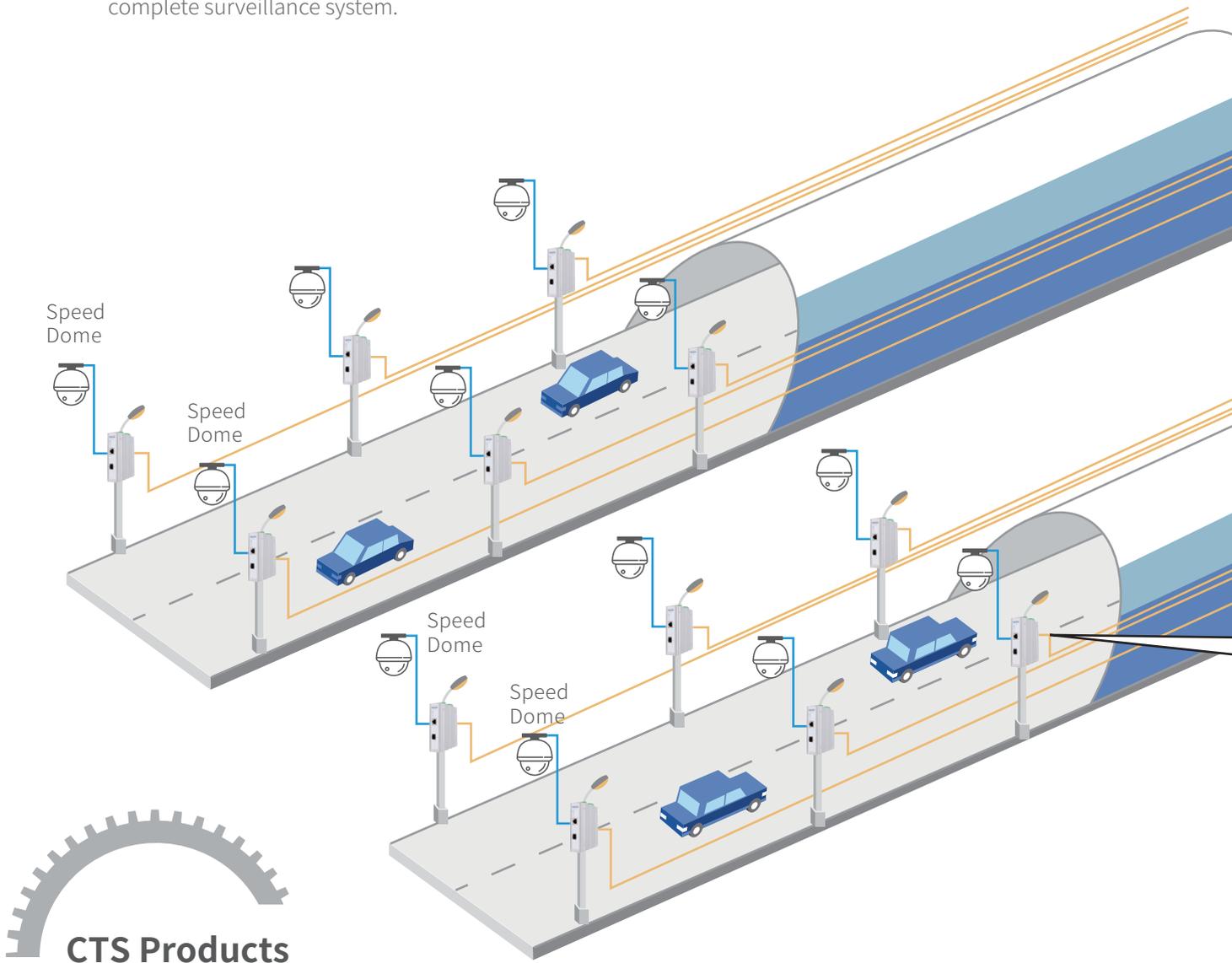
Timely Services

- Engineering Services
- Local Branch Support
- RMA Center
- Root Cause Analysis

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.



IPC-3012-PoE++

1-Port SFP to 1-Port **Force 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 teams help client look for the best solution.



Trustworthy Partner

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



In-house Designer

Providing reliable products that help the clients achieve their goals more effectively.



Extension and Expansion for Point-to-Point Solutions

In an ever-growing world of internet, media conversion is important for interconnecting two sources of services. For CTS, it's our job to simplify data transportation and create seamless connection between different devices. Media Converters series are flexible and cost-effective solutions for implementing and optimizing fiber links to copper links 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/10GBase-T
- Gigabit Solution for 100/1000Base-X SFP to 100/1000Base-X SFP, or 1G SFP to 10/100/1000Base-T
- WEB, CLI, Telnet, SSHv2 and SNMP v1/v2c/v3 Management Interface for Managed Media Converter
- Plug-and-Play 2/12/16/18-Slot Media Chassis
- 12/18-Slots Managed Media Chassis via WEB, CLI, Telnet, SSHv2 and SNMP v1/v2c/v3 Management Interface



MCT-5002SFP+
10G/Multi-G



CVT-5102SFP-MG
Managed



MCT-RACK-18-MGM
Media Converter Chassis



Robust, Reliable & Extendable Solutions to Reach Copper Devices Effortlessly



10G/Multi-G



SRC-5102SFP-MG



90W PoE Output



SRC-3002SFP-BT



-20~60°C/
-40~75°C



SRC-3002/ IAC-3012

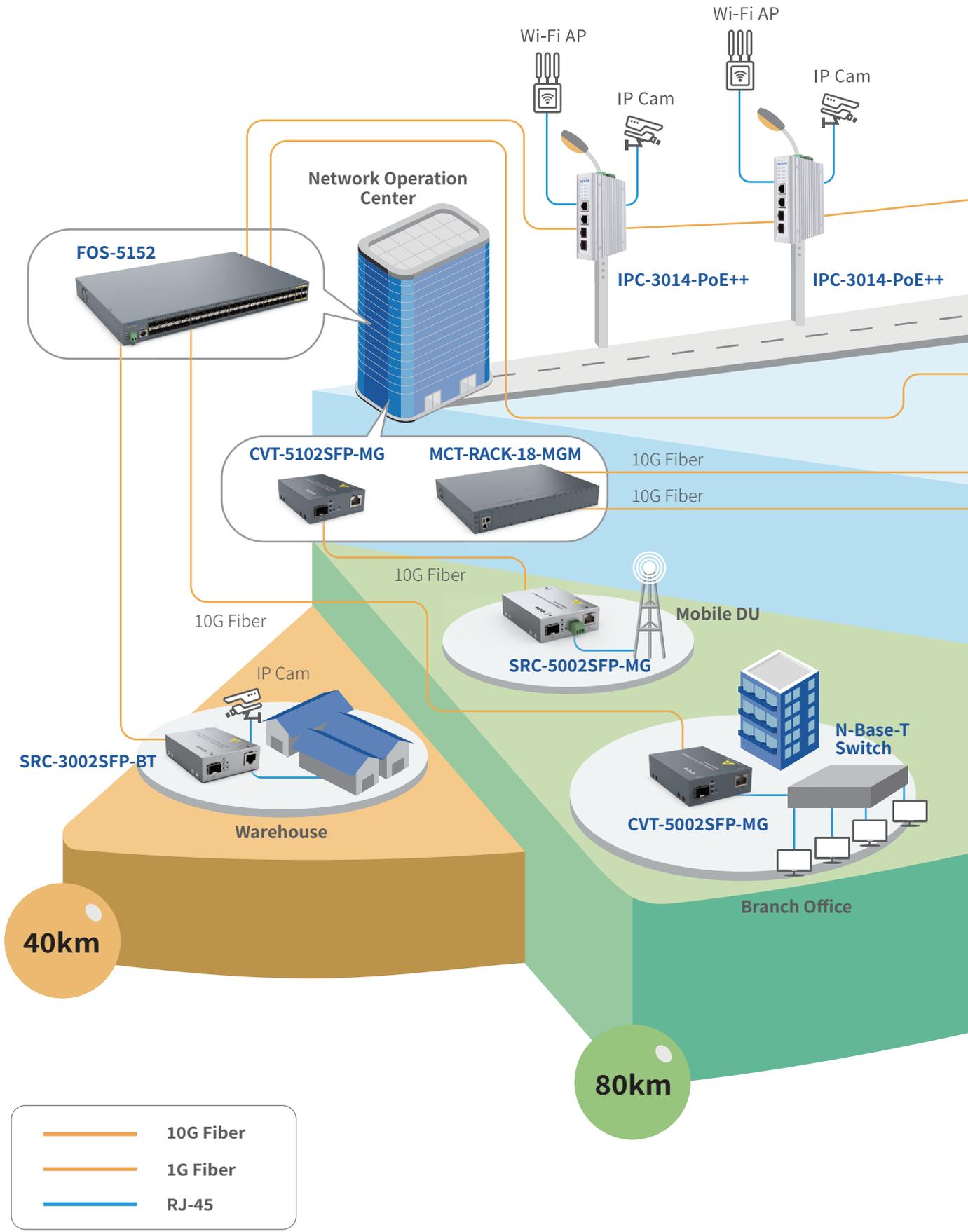
CTS Rugged/Industrial Media Converters in a robust IP30 housing are designed to meet the demands of plug-and-play usage. These series can extend your Ethernet networks beyond 100-meter limitation and convert fiber links from multi-mode to single-mode or vice versa. These models can extend from 2 to 120km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

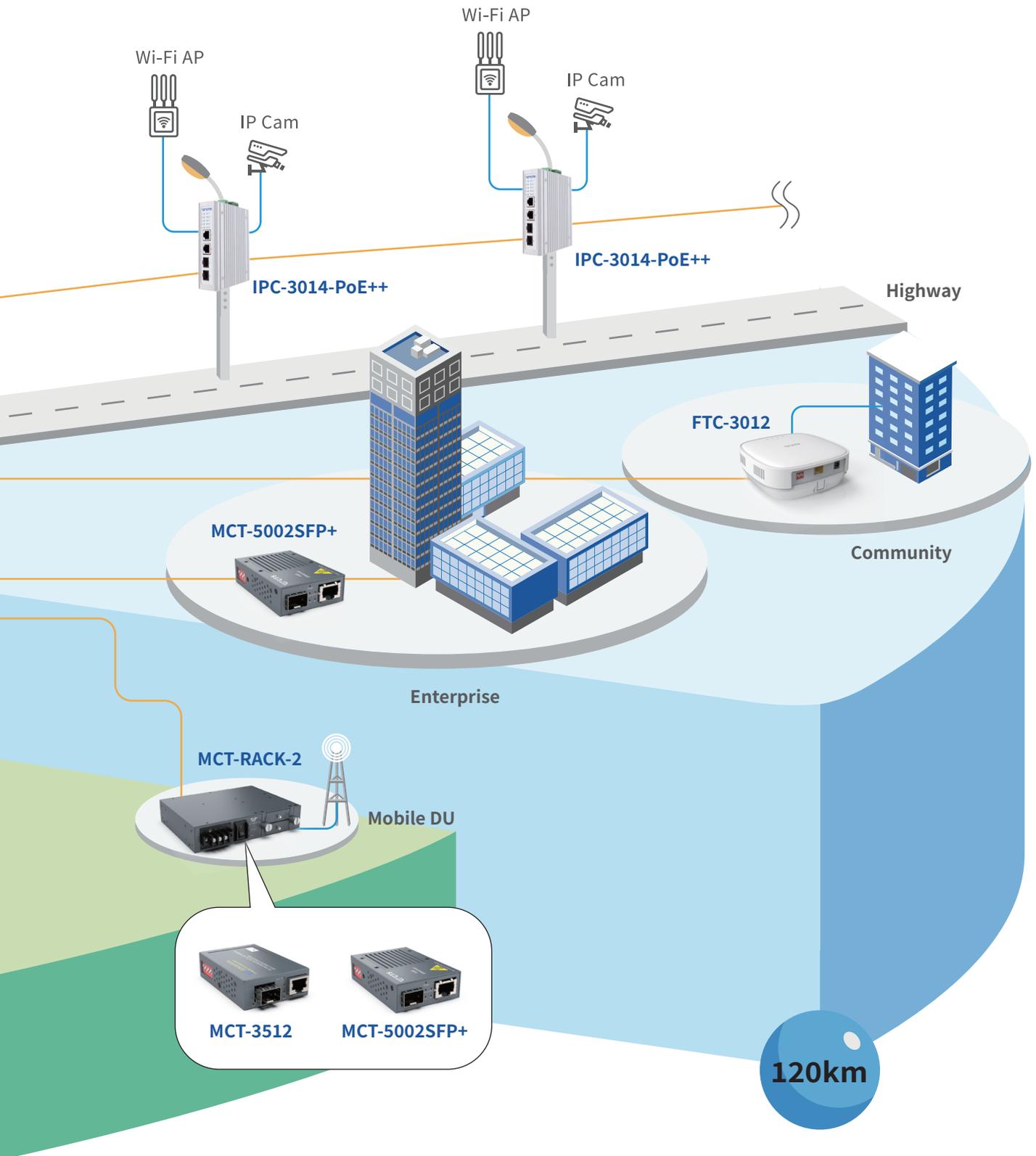
Our rugged media converters feature a very useful function, PSE Auto Power Off! PSE Auto Power Off allows you to turn on/off PoE power with Link Alarm. By shutting down the fiber port in the switch, the IPC/SRC stops transmitting both data and power to connected PoE-fed products such as IP camera and Wi-Fi access point.

Since the first step when troubleshooting an IP camera or Wi-Fi access point is almost always is to reboot it, PSE Auto Power Off is a valuable feature in these situations.

- IP30 Slim Design Housing
- -20~60°C/-40 ~75°C Operating Temperature
- Dual DC Power Inputs 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/bt PoE Power Output
- Built-in DIP Switch Provides Port Isolation and Fiber Redundancy Mode
- PSE Auto Power Off to turn on and off PoE power with Link Alarm

Application of Media Converter Solutions





Compact Media Converter Chassis

Model Name	MCT-RACK-18-MGM	MCT-RACK-12-MGM	
	Managed	Managed	
Product Image			
Hardware	Chassis Slots	18	12
	Dimension W x D x H	440 x 340 x 66mm	440 x 342 x 44mm
	Operating Temperature (Humidity)	0~50°C (5~90%)	
	Power Source	2 x Hot Swappable 100~240VAC/48VDC	
	Power Consumption (Full Load)	35W	72W
Management & Features	Converter Modules	MCT-5002FSMSFP+, MCT-5002SFP+, MCT-3612, 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

Compact Media Converter Chassis

Model Name	MCT-RACK-18	MCT-RACK-12	MCT-RACK-2	
	Non-managed	Non-managed	Non-managed	
Product Image				
Hardware	Chassis Slots	18	12	2
	Dimension W x D x H	440 x 340 x 66mm	440 x 342 x 44mm	210 x 160 x 44mm
	Operating Temperature (Humidity)	0~50°C (5~90%)		
	Power Source	2 x Fixed 100~240VAC/48VDC	2 x Hot Swappable 100~240VAC/48VDC	1 x Fixed 100~240VAC/48VDC
	Power Consumption (Full Load)	33W	72W	16W
	Converter Modules	MCT-5002FSMSFP+, MCT-5002SFP+, MCT-3612, MCT-3512, MCT-3002, MCT-100 Series		
Certifications	EMC/Safety			FCC Class A, CE

Media Converter Chassis

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

10G Compact Media Converter

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

Product Image



Hardware	10G SFP+	2 (1G Compatible)	1
	1G/2.5G/5G/10GBase-T	-	1
	Store and Forward	-	●
	Auto-MDI/MDI-X	-	●
	Auto-negotiation in TP Port	-	●
	Flow Control	-	-
	MAC Address Table	-	-
	Memory Buffer	-	128K Byte
	Jumbo Frame	9K Bytes	
	Slide-in Chassis	MCT-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
	Management & Features	IEEE 802.3ah OAM	-
Loopback Mode		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		

10G Media Converter

Model Name	CVT-5102SFP-MG	CVT-5002SFP-MG	CVT-5002SFP+
	Managed	Non-managed	Non-managed

Product Image



Hardware	10G SFP+	1 (1G Compatible)	1 (1G Compatible)	2
	1G/2.5G/5G/10GBase-T	1	1	-
	Store and Forward	●	●	-
	Auto-MDI/MDI-X	●	●	-
	Auto-negotiation in TP Port	●	●	-
	Flow Control	●	●	-
	MAC Address Table	4K		-
	Memory Buffer	8Mbit		-
	Jumbo Frame	16K Bytes		9K Bytes
	Slide-in Chassis	-		CVT-RACK Series
	Dimension W x D x H	71 x 94 x 26mm		
	Operating Temperature (Humidity)	0~50°C (5~90%)		
	Power Source	12VDC		5VDC
	Power Consumption	8.8W	6.4W	5W
IEEE 802.3ah OAM	-			
Management & Features	Loopback Mode	-		
	QoS	802.1p, CoS/DSCP	-	
	QoS Priority Queue	8	-	
	Bandwidth Control	●	-	
	VLAN	802.1q, Q-in-Q, Port based	-	
	VLAN ID	4094	-	
	VLAN Groups	128	-	
	Management	Telnet, SSHv2, CLI, WEB, SNMP v1/v2c/v3		-
	SNMP Power Down Trap	-		
	DHCP	Client, Auto Provisioning, Snooping		-
	Data-diode Direction	-	●	-
	Link Fault	-	Link Alarm	-
	Firmware Upgrade	FTP/TFTP/HTTP		-
Certifications	EMC/Safety		FCC Class A, CE	

1G Compact Media Converter			1G Media Converter	
Model Name	MCT-3612	MCT-3512	MCT-3002	CVT-3002-PLUS
	MCT-3612-DR	MCT-3512-DR	MCT-3002-DR	CVT-3002-PLUS-DR
	Managed	Managed	Non-managed	Non-managed

Product Image



Hardware	10/100/1000Base-T	1	1	1	1
	10/100Base-TX	-	-	-	-
	1000Base-X	1 (BTFX/W2X/SFP)	1 (BTFX/W2X/SFP)	1 (BTFX/W2X/SFP)	1 (BTFX/W2X/SFP)
	100Base-FX *	Compatible	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	
	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		5VDC		
	Power Consumption		3W		1.5W
Management & Features	IEEE 802.3ah OAM	-	●	-	
	Loopback Mode			-	
	QoS			-	
	QoS Priority Queue			-	
	Bandwidth Control		●		-
	VLAN		802 1q, Q-in-Q		-
	VLAN ID		4094		-
	VLAN Groups		8		-
	Management	In Rack Management	In Rack Management, Remote Management**		-
	SNMP Power Down Trap			-	
	DHCP			-	
	Link Alarm			●	
	Firmware Upgrade		In Rack		-
Certifications	EMC/Safety	FCC Class A, CE			

* Only MCT-XXXX-DR/ CVT-XXXX-DR compatible with 100Base-FX

** 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*	HMC-3012
			FTC-3012-DR	
	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/SFP)	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%)		0~45°C (5~90%)		
	Power Source	5VDC		12VDC		
	Power Consumption	1.5W	3W	2.04W		
	Management & Features	IEEE 802.3ah OAM			-	
		Loopback Mode			-	
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			

*FTC-3012-DR-DS equipped with a 4-Pin DIP switch

Rugged 10G Media Converter

Model Name	SRC-5102SFP-MG	SRC-5002SFP-MG-BT	SRC-5002SFP-MG
	managed	Non-managed	Non-managed

Product Image



Hardware	10G SFP+	1	1	1
	1G/2.5G/5G/10GBase-T	1	1	1
	1000Base-X	Compatible	Compatible	Compatible
	Digital Input/Output	1 x DI	1 x DO	-
	PoE	-	1 x IEEE 802.3af/at/bt	-
	Store and Forward		●	
	Auto-MDI/MDI-X		●	
	Auto-negotiation in TP Port		●	
	Flow Control		●	
	MAC Address Table		4K	
	Memory Buffer		8Mbit	
	Jumbo Frame		16K Bytes	
	Slide-in Chassis		-	
	Dimension W x D x H		71 x 94 x 26mm	
	Operating Temperature (Humidity)		-20~60°C (5~90%)	
Power Source	12-57VDC	48-57VDC	12-57VDC	
Power Consumption	11W	108W	8W	
Management & Features	PSE Auto Power Off	-	●*	-
	IEEE 802.3ah OAM		-	
	Loopback Mode		-	
	QoS	802.1p, CoS/DSCP		-
	QoS Priority Queue	8		-
	Bandwidth Control	●		-
	VLAN	802.1q, Q-in-Q, Port based		-
	VLAN ID	4094		-
	VLAN Groups	128		-
	Management	Telnet,SSHv2, CLI, WEB, SNMP v1/v2c/v3		-
	SNMP Power Down Trap		-	
	DHCP	Client, Auto Provisioning, Snooping		-
	Link Fault	-		Link Alarm
	Firmware Upgrade	FTP/TFTP/HTTP		-
Certifications	EMC/Safety	FCC Class A, CE		

* Only operates when the fiber interface link goes down, with link alarm function enabled

Rugged 1G Media Converter					
Model Name	SRC-3002SFP-BT-DO	SRC-3002SFP-BT	SRC-3002SFP-DO	SRC-3002SFP	
	Non-managed	Non-managed	Non-managed	Non-managed	
Product Image					
Hardware	10/100/1000Base-T	1	1	1	1
	10/100Base-TX	-	-	-	-
	1000Base-X	1	1	1	1
	100Base-FX	Compatible	Compatible	Compatible	Compatible
	Digital Output	●	-	●	-
	PoE	1 x IEEE 802.3af/at/bt		-	
	Store and Forward			●	
	Auto-MDI/MDI-X			●	
	Auto-negotiation in TP Port			●	
	Flow Control			-	
	MAC Address Table			2K	
	Memory Buffer			128K Bytes	
	Jumbo Frame			9K Bytes	
	Slide-in Chassis			-	
	Dimension W x D x H			71 x 94 x 26mm	
	Operating Temperature (Humidity)	-20~60°C (5~95%)		-40~75°C (5~95%)	
	Power Source	48~57VDC		12~57VDC	
	Power Consumption	102W		2.45W	
Management & Features	PSE Auto Power Off	●*	-		
	Data-diode Direction	-	●	-	●
	Link Alarm			●	
Certifications			FCC Class A, CE		

* Only operates when the fiber interface link goes down, with link alarm function enabled

Industrial Force 60W PoE Media Converter

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

Product Image



Hardware	10/100/1000Base-T	2	1
	1000Base-X	2	1
	100Base-FX	Compatible	Compatible
	Digital Output		●
	PoE	1 x up to Force 60W PoE + 1 x IEEE 802.3af/at	1 x up to Force 60W PoE or 1 x IEEE 802.3af/at
	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

Model Name	IAC-3014	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					
	Speed (Gbps)	Type	Connector	Distance	Wavelength (nm)	Temperature
SFP-51FC	10	MM	LC	300M	850	0~70°C
SFP-51FC(SM-02/10/20/40)	10	SM	LC	2/10/20/40KM	1310/1310/1310/1550	0~70°C
SFP-51W2A(SM-10/20/40)	10	WDM	LC	10/20/40KM	TX:1270/1270/1270 RX:1330/1330/1330	0~70°C
SFP-51W2B(SM-10/20/40)	10	WDM	LC	10/20/40KM	TX:1330/1330/1330 RX:1270/1270/1270	0~70°C

Gigabit Ethernet SFP Transceiver

Product Image



MODEL	SFP-31-DR					
	Speed (Mbps)	Type	Connector	Distance	Wavelength (nm)	Temperature
SFP-31FC-DR	100/1000	MM	LC	550M/2KM	1310	0~70°C
SFP-31FC(SM-10/20)-DR	100/1000	SM	LC	10/20KM	1310/1310	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

Product Image



MODEL	SFP-31					
	Speed (Mbps)	Type	Connector	Distance	Wavelength (nm)	Temperature
SFP-31FC	1000	MM	LC	550M	850	0~70°C
SFP-31FC(SM-10/20/40)	1000	SM	LC	10/20/40KM	1310/1310/1310	0~70°C
SFP-31W2A(SM-10/20/40)	1000	WDM	LC	10/20/40KM	TX:1310/1310/1310 RX:1550/1550/1550	0~70°C
SFP-31W2B(SM-10/20/40)	1000	WDM	LC	10/20/40KM	TX:1550/1550/1550 RX:1310/1310/1310	0~70°C

Copper Ethernet SFP Transceiver

Product Image



MODEL	SFP-50/30TP					
	Speed (Gbps)	Type	Connector	Distance	Wavelength (nm)	Temperature
SFP-50TP-MG(30M)	1/2.5/5/10	-	RJ-45	30M	-	0~65°C
SFP-30TP	1	-	RJ-45	100M	-	0~70°C

Industrial 10G Ethernet SFP+ Transceiver

Product Image



MODEL	SFP-51-D					
	Speed (Gbps)	Type	Connector	Distance	Wavelength (nm)	Temperature
SFP-51FC(SM-02)-D	10	SM	LC	2KM	1310	-40~85°C

Industrial Gigabit Ethernet SFP Transceiver

Product Image



MODEL	SFP-31-D					
	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/2.3Ah	7hrs	2.2hrs (for HES-3109SSFP)	0~50°C	124 x 70 x 30mm

Power Supply

Product Image



MODEL	Output			Input	Protection	Temperature	Dimension W x D x H
	Rated Power	Voltage Adj. Range*	Current Range	Voltage 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

* Output Voltage Tolerance: $\pm 1.0\%$

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