

Product Portfolio

Leading FTTX Network Solutions



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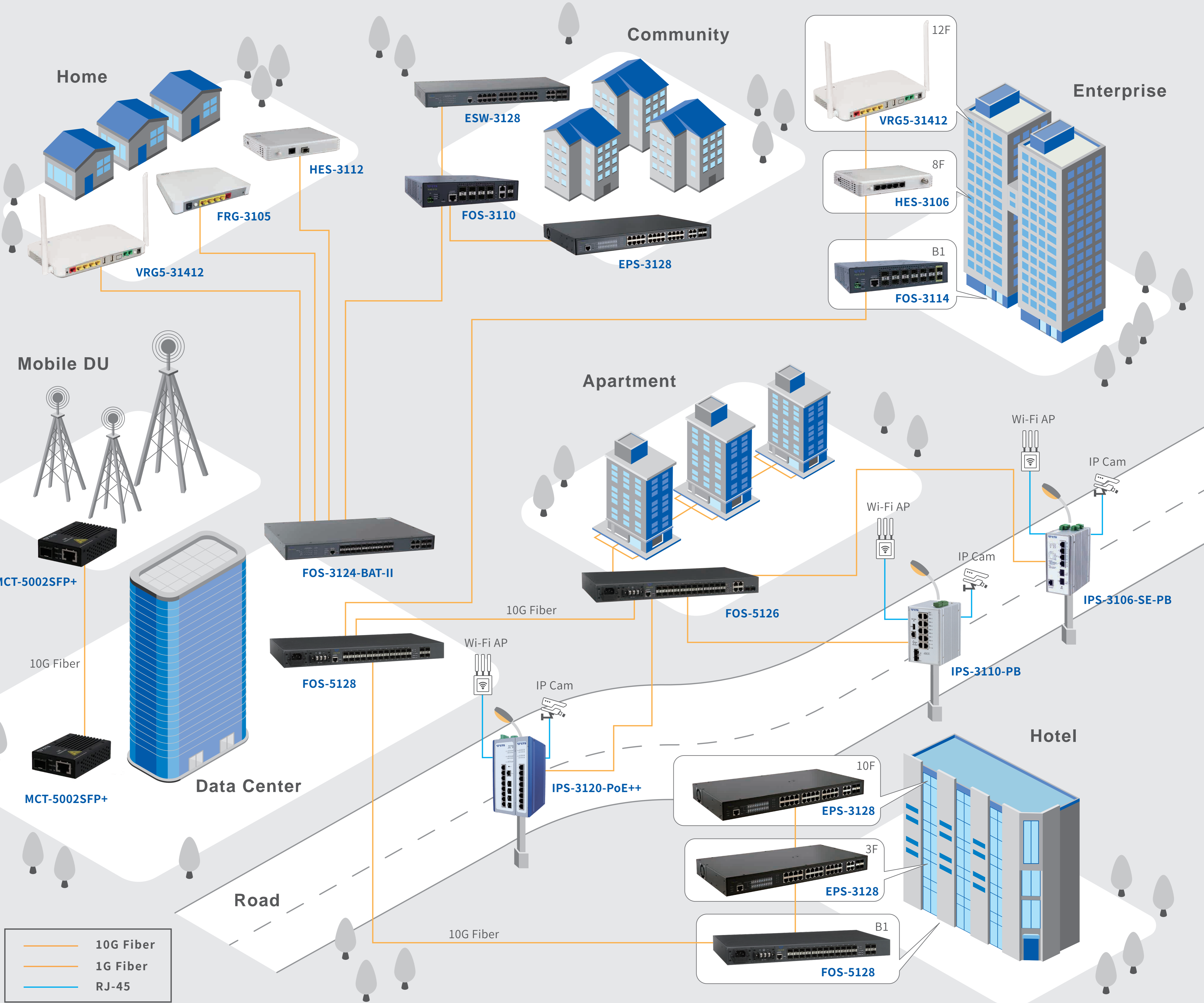
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Product Portfolio



Switch Product Line

L2 Managed 10G Fiber Switch		L2 Managed Gigabit Fiber Switch			PoE Long Reach Ethernet Extender		
10G, Dual Power Input FOS-5128 <ul style="list-style-type: none"> 10G SFP+ slot x 4 100/1000Base-X SFP slot x 24 Digital output supported Redundant power system 	10G, Dual Power Input FOS-5126 <ul style="list-style-type: none"> 10G SFP+ slot x 2 100/1000Base-X SFP slot x 24 10/100/1000Base-T port x 4 shared with port-21 to 24 Redundant power system 	High Density Fiber FOS-3148 FOS-3148-BAT FOS-3148-BAT-P <ul style="list-style-type: none"> 100/1000Base-X SFP slot x 48 100/1000Base-T port x 4 shared with port-45 to 48 Redundant power system Battery backup feature (BAT model only) 	Dual Power Input FOS-3128 <ul style="list-style-type: none"> 100/1000Base-X SFP slot x 28 100/1000Base-T port x 4 shared with port-25 to 28 Redundant power system 	Dual Power Input FOS-3124-BAT-II FOS-3124-BAT-II-P <ul style="list-style-type: none"> 100/1000Base-X SFP slot x 24 100/1000Base-T port x 4 shared with port-21 to 24 Redundant power system Battery backup feature 	High Density Fiber, 8.5-inch, Fanless FOS-3114 <ul style="list-style-type: none"> 100/1000Base-X SFP slot x 14 	High Density Fiber, 8.5-inch, Fanless FOS-3110 <ul style="list-style-type: none"> 100/1000Base-X SFP slot x 10 100/1000Base-T port x 2 shared with port-9 to 10 	Dual Power Input, Long Distance, PoE+ PLR-2012-TX PLR-2012-RX <ul style="list-style-type: none"> PLR-2012-TX: 1-port PoE PD to 1-port PLR injector PLR-2012-RX: 1-port PLR extender to 1-port PoE PSE 7-segment digital LED Dual power input system Power and data over UTP up to 1km
<ul style="list-style-type: none"> Console, Telnet, SSHv2, CLI, WEB, SNMP managed IPv4/IPv6 Dual Stack STP/RSTP VLAN 802.1q, Qin-Q QoS 802.1p, ToS/DSCP Bandwidth control, Storm control 	<ul style="list-style-type: none"> IGMP Snooping v1, v2, v3, filter and Fast Leave MLD Snooping v1, v2 802.3ad LACP, port trunking, LLDP DHCP client, snooping, auto provisioning 802.1X MAB*, ACL, built-in RADIUS client 	<ul style="list-style-type: none"> Console, Telnet, SSHv2, CLI, WEB, SNMP managed IPv4/IPv6 Dual Stack STP/RSTP VLAN 802.1q, Qin-Q QoS 802.1p, ToS/DSCP Bandwidth control, Storm control 	<ul style="list-style-type: none"> VLAN 802.1q, Qin-Q QoS 802.1p, ToS/DSCP Bandwidth control, Storm control 	<ul style="list-style-type: none"> IGMP Snooping v1, v2, v3, filter and Fast Leave MLD Snooping v1, v2 802.3ad LACP, port trunking, LLDP DHCP client, snooping, auto provisioning 802.1X MAB*, ACL, built-in RADIUS client 	<ul style="list-style-type: none"> IGMP Snooping v1, v2, v3, filter and Fast Leave MLD Snooping v1, v2 802.3ad LACP, port trunking, LLDP 	<ul style="list-style-type: none"> DHCP client, snooping, auto provisioning 802.1X MAB*, ACL, built-in RADIUS client Fast Ring v2 (FOS-3114/3110 only) 	

L2 Managed Gigabit PoE+ Switch		L2 Managed Gigabit Ethernet Switch		L2 Managed Gigabit CPE Switch			
PoE+, Fast Ring v2 EPS-3128 EPS-3128-LP EPS-3128-SE-180W <ul style="list-style-type: none"> 10/100/1000Base-T with 802.3at PoE+ port x 24 100/1000Base-X SFP slot x 4 100/1000Base-T port x 4 shared with port-25 to 28 180/240/480W PoE budget 	PoE+ EPS-3112 <ul style="list-style-type: none"> 10/100/1000Base-T with 802.3at PoE+ port x 8 100/1000Base-X SFP slot x 4 100/1000Base-T port x 4 shared with port-9 to 12 130W PoE budget 	Dual Power Input ESW-3128 <ul style="list-style-type: none"> 10/100/1000Base-T port x 28 100/1000Base-X SFP slot x 4 shared with port-25 to 28 Redundant power system 	 SWH-3112 <ul style="list-style-type: none"> 10/100/1000Base-T port x 12 100/1000Base-X SFP slot x 4 shared with port-9 to 12 	 HES-3109 HES-3109-DR HES-3109SSFP-DR <ul style="list-style-type: none"> 100/1000Base-X fiber port x 1 100/1000Base-T port x 8 Optional cable tray 	 HES-3106(B) HES-3106-DR HES-3106-PLUS HES-3106-PLUS-DR <ul style="list-style-type: none"> 100/1000Base-X fiber port x 1 100/1000Base-T port x 5 Optional cable tray 	 HES-3106SFP-F2 <ul style="list-style-type: none"> 100/1000Base-X fiber port x 2 100/1000Base-T port x 4 	 HES-3106TP HES-3109TP <ul style="list-style-type: none"> 10/100/1000Base-T port x 6/9 Optional cable tray
<ul style="list-style-type: none"> Console, Telnet, SSHv2, CLI, WEB, SNMP managed IPv4/IPv6 Dual Stack STP/RSTP VLAN 802.1q, Qin-Q QoS 802.1p, ToS/DSCP Bandwidth control, Storm control 	<ul style="list-style-type: none"> IGMP Snooping v1, v2, v3, filter and Fast Leave MLD Snooping v1, v2 802.3ad LACP, port trunking, LLDP DHCP client, snooping, auto provisioning 802.1X MAB*, ACL, built-in RADIUS client Fast Ring v2 (EPS-3128 series only) 	<ul style="list-style-type: none"> Console, Telnet, SSHv2, CLI, WEB, SNMP managed IPv4/IPv6 Dual Stack STP/RSTP VLAN 802.1q, Qin-Q QoS 802.1p, ToS/DSCP Bandwidth control, Storm control 	<ul style="list-style-type: none"> IGMP Snooping v1, v2, v3, filter and Fast Leave MLD Snooping v1, v2 802.3ad LACP, port trunking, LLDP DHCP client, snooping, auto provisioning 802.1X MAB*, ACL, built-in RADIUS client 	<ul style="list-style-type: none"> Telnet, SSHv2, CLI, WEB, SNMP managed IPv4/IPv6 Dual Stack VLAN 802.1q, Qin-Q 	<ul style="list-style-type: none"> QoS 802.1p, ToS/DSCP Bandwidth control, Storm control IGMP Snooping v1, v2 	<ul style="list-style-type: none"> Loop detection, port mirroring DHCP client, auto provisioning Built-in RADIUS client 	

Fiber Gateway Product Line			Media Converter Product Line					
Gigabit Fiber Residential Gateway			16-slots Media Chassis	10G Fiber Media Converter	Gigabit Media Converter			
Wi-Fi AC, VoIP, TR-069 VRG5-31412SFP-CW-AC-DR <ul style="list-style-type: none"> WAN: 100/1000Base-X SFP slot x 1 10/100/1000Base-T RJ-45 Combo port LAN: 10/100/1000Base-T port x 4 IEEE 802.11 b/g/n/ac 8xS RJ-45 ports Optional cable tray 	Wi-Fi AC, TR-069 FWR5-3105SFP-CW-AC-DR <ul style="list-style-type: none"> WAN: 100/1000Base-X SFP slot x 1 10/100/1000Base-T RJ-45 Combo port LAN: 10/100/1000Base-T port x 4 IEEE 802.11 b/g/n/ac Optional cable tray 	TR-069 FRG-3105SFP-CW-DR <ul style="list-style-type: none"> WAN: 100/1000Base-X SFP slot x 1 10/100/1000Base-T RJ-45 Combo port LAN: 10/100/1000Base-T port x 4 Optional cable tray 	 CVT-RACK-16 CVT-RACK-16S <ul style="list-style-type: none"> 16 slots for CVT media converters 2 hot-swappable fan modules 2 hot-swappable redundancy power modules (16 only) Optional AC or DC power modules (16 only) Fixed AC power supply (16S only) 	 CVT-5002SFP+ <ul style="list-style-type: none"> 10G SFP+ slot to 10G SFP+ slot 9K Bytes Jumbo frame Compatible with CVT-RACK-16(S) 	 CVT-3512 <ul style="list-style-type: none"> 10/100/1000M RJ-45 to 1G fiber 1K MAC address table 9K Bytes Jumbo frame Compatible with CVT-RACK-16(S) 	 CVT-3112 <ul style="list-style-type: none"> 10/100/1000M RJ-45 to 1G fiber 1K MAC address table 9K Bytes Jumbo frame Compatible with CVT-RACK-16(S) 	 CVT-3002-PLUS CVT-3002-PLUS-DR <ul style="list-style-type: none"> 10/100/1000M RJ-45 to 100/1000M fiber 1K MAC address table 9K Bytes Jumbo frame Compatible with CVT-RACK-16(S) 	 CVT-3002FMSFP-DR <ul style="list-style-type: none"> 100/1000M SFP slot to 100/1000M SFP slot 9K Bytes Jumbo frame Compatible with CVT-RACK-16(S)
<ul style="list-style-type: none"> Telnet, SSHv2, CLI, WEB, SNMP managed IPv4/IPv6 Dual Stack NAT/Bridge mode VLAN 802.1q, Qin-Q QoS 802.1p, ToS/DSCP 	<ul style="list-style-type: none"> IGMP Snooping, proxy Loop detection, port mirroring DHCP server, client, auto provisioning 802.1X, built-in RADIUS client DoS prevention, packet & URL filtering 	<ul style="list-style-type: none"> Sylog, DDNS, NTP client Port forwarding & triggering, DMZ WFS, WEP, WPA, WPA2 (WPA2 and WPA2 only) G.711 a/u, G.723, G.726, G.729 ab speech codecs (VRGS only) 			<ul style="list-style-type: none"> Bandwidth control, Flow control VLAN 802.1q, Qin-Q WEB, SNMP managed Link alarm Power down trap 	<ul style="list-style-type: none"> Bandwidth control, Flow control VLAN 802.1q, Qin-Q WEB, SNMP managed Link alarm Power down trap 	<ul style="list-style-type: none"> Flow control Link alarm 	<ul style="list-style-type: none"> Link alarm

Compact Size Media Converter Product Line

Fast Ethernet Media Converter		18-/12-/2-slots Compact Size Media Chassis				10G Compact Size Media Converter	
Managed, OAM CVT-2512 <ul style="list-style-type: none"> 10/100M RJ-45 to 100M fiber 1K MAC address table 9K Bytes Jumbo frame Compatible with CVT-RACK-16(S) 	Managed CVT-2112 <ul style="list-style-type: none"> 10/100M RJ-45 to 100M fiber 1K MAC address table 9K Bytes Jumbo frame Compatible with CVT-RACK-16(S) 	Managed CVT-100 <ul style="list-style-type: none"> 10/100M RJ-45 to 100M fiber 1K MAC address table 9K Bytes Jumbo frame Compatible with CVT-RACK-16(S) 	Managed MCT-RACK-18-MGM <ul style="list-style-type: none"> 18 slots for MCT media converters 2 hot-swappable redundancy power modules Optional AC or DC power supplies Optional AC or DC power supply 	 MCT-RACK-18 <ul style="list-style-type: none"> 18 slots for MCT media converters 2 hot-swappable redundancy power modules Optional AC or DC power supplies Optional AC or DC power supply 	 MCT-RACK-12-MGM <ul style="list-style-type: none"> 12 slots for MCT media converters 2 hot-swappable redundancy power modules Optional AC or DC power supplies Optional AC or DC power supply 	 MCT-RACK-2 <ul style="list-style-type: none"> 2 slots for MCT media converters 2 hot-swappable redundancy power modules Optional AC or DC power supply 	 MCT-5002SFP+ <ul style="list-style-type: none"> 100M/10G SFP to 10G N-Base-T RJ-45 to 10G SFP+ slot 9K Bytes Jumbo frame Compatible with MCT-RACK-18/12/2
<ul style="list-style-type: none"> Bandwidth control, Flow control 802.3ah OAM VLAN 802.1q, Qin-Q WEB, SNMP managed Link alarm Power down trap 	<ul style="list-style-type: none"> Bandwidth control, Flow control VLAN 802.1q, Qin-Q WEB, SNMP managed Link alarm Power down trap 	<ul style="list-style-type: none"> Link alarm 	<ul style="list-style-type: none"> Telnet, CLI, WEB, SNMP managed 	<ul style="list-style-type: none"> Flow control Link alarm 	<ul style="list-style-type: none"> Telnet, CLI, WEB, SNMP managed 	<ul style="list-style-type: none"> Flow control Link alarm 	

Home Size Media Converter Product Line

Industrial Switch Product Line

Gigabit Compact Size Media Converter			Fast Ethernet Compact Size Media Converter		Gigabit Home Size Media Converter		Industrial Managed PoE Switch		
Managed, OAM, Dual Rate Fiber Speed MCT-3512-DR <ul style="list-style-type: none"> 10/100/1000M RJ-45 to 100/1000M fiber 2K MAC address table 9K Bytes Jumbo frame Compatible with MCT-RACK-18/12-MGM 	Managed, Dual Rate Fiber Speed MCT-3612-DR <ul style="list-style-type: none"> 10/100/1000M RJ-45 to 100/1000M fiber 2K MAC address table 9K Bytes Jumbo frame Compatible with MCT-RACK-18/12-MGM 	Dual Rate Fiber Speed MCT-3002-DR <ul style="list-style-type: none"> 10/100/1000M RJ-45 to 100/1000M fiber 2K MAC address table 9K Bytes Jumbo frame Compatible with MCT-RACK-18/12/2 	 MCT-100 <ul style="list-style-type: none"> 10/100M RJ-45 to 100M fiber 1K MAC address table 9K Bytes Jumbo frame Compatible with MCT-RACK-18/12/2 	 HES-3112-CL-DR <ul style="list-style-type: none"> 100/1000M fiber to 100/1000M fiber 10/100/1000M RJ-45 Combo 2K MAC address table 9K Bytes Jumbo frame Optional cable tray 	 HET-3012-DR <ul style="list-style-type: none"> 10/100/1000M RJ-45 to 100/1000M fiber 2K MAC address table 9K Bytes Jumbo frame Built-in cable tray 	 IPS-3120-PoE++ <ul style="list-style-type: none"> 10/100/1000Base-T with 802.3at PoE+ port x 8 100/1000Base-T port x 1 100/1000Base-X SFP slot x 4 200W PoE budget 40-75°C wide operating temperature 48-55VDC dual redundant power system 	 IPS-3112-PoE++ <ul style="list-style-type: none"> 10/100/1000Base-T with 60W PoE+ port x 8 100/1000Base-T port x 1 100/1000Base-X SFP slot x 4 90W PoE budget 40-75°C wide operating temperature 48-55VDC dual redundant power system 	 IPS-3108-EXP <ul style="list-style-type: none"> 10/100/1000Base-T with 802.3at PoE+ port x 8 100/1000Base-X SFP slot x 2 90W PoE budget 40-75°C wide operating temperature 48-55VDC dual redundant power system 	
<ul style="list-style-type: none"> Bandwidth control, Flow control 802.3ah OAM Link pass through Port status, counter, DMI 	<ul style="list-style-type: none"> Bandwidth control, Flow control VLAN 802.1q, Qin-Q Link alarm Port status, counter, DMI 	<ul style="list-style-type: none"> Link alarm 	<ul style="list-style-type: none"> Telnet, SSHv2, CLI, WEB, SNMP managed IPv4/IPv6 Dual Stack STP/RSTP/Fast Ring v2 VLAN 802.1q, Qin-Q QoS 802.1p, ToS/DSCP DHCP client, auto provisioning 	<ul style="list-style-type: none"> Flow control Link alarm 	<ul style="list-style-type: none"> Console, SSH, Telnet, CLI, WEB, SNMP managed STP/RSTP/Fast Ring v2 VLAN 802.1q, Qin-Q QoS 802.1p, ToS/DSCP Bandwidth control, Storm control IGMP Snooping v1, v2 and Fast Leave 802.3ad LACP, port trunking, LLDP DHCP client, auto provisioning 802.1X, ACL, built-in RADIUS client 	<ul style="list-style-type: none"> IGMP Snooping v1, v2, v3, filter and Fast Leave 802.3ad LACP, port trunking, LLDP DHCP client 802.1X MAB*, ACL, built-in RADIUS/TACACS+ client 	<ul style="list-style-type: none"> PoE expansion module for IPS-3112-PoE++ 		

Industrial Managed PoE Switch			L2 Managed Gigabit Fiber Switch		Non-managed Switch		
30W PoE, Fast Ring v2 IPS-3110 <ul style="list-style-type: none"> 10/100/1000Base-T with 802.3at PoE+ port x 8 100/1000Base-X SFP slot x 2 100/1000Base-T port x 2 shared with port-9 to 10 240W PoE budget 40-75°C wide operating temperature 44-54VDC dual redundant power system 	30W PoE, Fast Ring v2, Power Booster IPS-3110-PB <ul style="list-style-type: none"> 10/100/1000Base-T with 802.3at PoE+ port x 8 100/1000Base-X SFP slot x 2 100/1000Base-T port x 2 shared with port-9 to 10 240W PoE budget 40-75°C wide operating temperature 24-54VDC dual redundant power system 	30W PoE, Fast Ring v2, Power Booster IPS-3106-SE-PB <ul style="list-style-type: none"> 10/100/1000Base-T with 802.3at PoE+ port x 4 100/1000Base-X SFP slot x 2 120W PoE budget 40-75°C wide operating temperature 24-54VDC dual redundant power system 	 IES-3110 <ul style="list-style-type: none"> 10/100/1000Base-T port x 10 100/1000Base-X SFP slot x 2 shared with port-9 to 10 40-75°C wide operating temperature 42-54VDC dual redundant power system 	 IES-3106 <ul style="list-style-type: none"> 10/100/1000Base-T with 802.3at PoE+ port x 4 40-75°C wide operating temperature 42-54VDC dual redundant power system 	 IPS-3005-F1 <ul style="list-style-type: none"> 10/100/1000Base-T with 802.3at PoE+ port x 4 100/1000Base-T port x 1 100/1000Base-X SFP slot x 2 40-75°C wide operating temperature 48-55VDC dual redundant power system 	 IPS-3005 <ul style="list-style-type: none"> 10/100/1000Base-T with 802.3at PoE+ port x 4 100/1000Base-T port x 1 100/1000Base-X SFP slot x 2 40-75°C wide operating temperature 48-55VDC dual redundant power system 	 IES-3008-F2 <ul style="list-style-type: none"> 10/100/1000Base-T port x 6 100/1000Base-X SFP slot x 2 40-75°C wide operating temperature 48-55VDC dual redundant power system
<ul style="list-style-type: none"> Console, Telnet, SSHv2, CLI, WEB, SNMP managed IPv4/IPv6 Dual Stack STP/RSTP/Fast Ring v2 VLAN 802.1q, Qin-Q QoS 802.1p, ToS/DSCP Bandwidth control, Storm control 	<ul style="list-style-type: none"> IGMP Snooping v1, v2, v3 and Fast Leave MLD Snooping v1, v2 DHCP client, snooping, auto provisioning 802.1X, ACL, built-in RADIUS client 	<ul style="list-style-type: none"> Console, Telnet, SSHv2, CLI, WEB, SNMP managed IPv4/IPv6 Dual Stack STP/RSTP/Fast Ring v2 VLAN 802.1q, Qin-Q QoS 802.1p, ToS/DSCP Bandwidth control, Storm control IGMP Snooping v1, v2, v3, filter, and Fast Leave MLD Snooping v1, v2 802.3ad LACP, port trunking, LLDP DHCP client, snooping, auto provisioning 802.1X, ACL, built-in RADIUS client 	<ul style="list-style-type: none"> Console, Telnet, SSHv2, CLI, WEB, SNMP managed IPv4/IPv6 Dual Stack STP/RSTP/Fast Ring v2 VLAN 802.1q, Qin-Q QoS 802.1p, ToS/DSCP Bandwidth control, Storm control 	<ul style="list-style-type: none"> Console, Telnet, SSHv2, CLI, WEB, SNMP managed IPv4/IPv6 Dual Stack STP/RSTP/Fast Ring v2 VLAN 802.1q, Qin-Q QoS 802.1p, ToS/DSCP Bandwidth control, Storm control IGMP Snooping v1, v2 and Fast Leave 802.3ad LACP, port trunking, LLDP DHCP client 802.1X, ACL, built-in RADIUS client 	<ul style="list-style-type: none"> IGMP Snooping v1, v2, v3, filter and Fast Leave 802.3ad LACP, port trunking, LLDP DHCP client 802.1X MAB*, ACL, built-in RADIUS/TACACS+ client 	<ul style="list-style-type: none"> IGMP Snooping v1, v2, v3, filter and Fast Leave 802.3ad LACP, port trunking, LLDP DHCP client 802.1X MAB*, ACL, built-in RADIUS/TACACS+ client 	

Industrial Media Converter Product Line (-40~75°C)

Non-managed Switch				Industrial PoE Media Converter			
 IES-3008 <ul style="list-style-type: none"> 10/100/1000Base-T port x 8 40-75°C wide operating temperature 12-58VDC dual redundant power system 	 IES-3005-F1 <ul style="list-style-type: none"> 10/100/1000Base-T port x 4 100/1000Base-X SFP slot x 1 100/1000Base-T port x 2 shared with port-9 to 10 12-58VDC dual redundant power system 	 IES-3005 <ul style="list-style-type: none"> 10/100/1000Base-T port x 5 40-75°C wide operating temperature 12-58VDC dual redundant power system 	 WPS-3005 <ul style="list-style-type: none"> 10/100/1000Base-T with 802.3at PoE+ port x 4 1000Base-X fiber port x 1 100/1000Base-T port x 1 12-54VDC triple redundant power system 	 WPS-2006 <ul style="list-style-type: none"> 100Base-TX with 802.3at PoE+ port x 4 100Base-TX port x 1 100Base-FX fiber port x 1 20-60°C operating temperature 12-54VDC triple redundant power system 	 WAS-3005 <ul style="list-style-type: none"> 10/100/1000Base-T port x 4 100Base-X fiber port x 1 100Base-TX port x 1 20-60°C operating temperature 12-54VDC triple redundant power system 	 WAS-2006 <ul style="list-style-type: none"> 10/100Base-TX port x 5 100Base-FX fiber port x 1 100Base-TX port x 1 20-60°C operating temperature 12-54VDC triple redundant power system 	 IPC-3014-PoE++ <ul style="list-style-type: none"> 10/100/1000Base-T with 802.3at PoE+ port x 1 100/1000Base-T with 60W PoE+ port x 1 100