ITP-2204GTM

22x FE M12 + 4x GbE M12

- » EN50155, EN50121-4, EN45545-2, EN61000-6-2, EN61000-6-4 CE and FCC Certified
- >> 24/48/72/96/110VDC Redundant Dual Power Input
- » 4KV Surge Protection for UTP Ports
- 2.25K VDC Hi-Pot Isolation Protection for Ethernet Ports and Power
- » Cable Diagnostics, Identifies Opens/Shorts Distance





The ITP series models are managed, industrial grade, L2 Fast Ethernet switches that provide 22x 10/100Base-TX and 4x 10/100/1000Base-T(X) ports. The ITP switches use M12 connectors to ensure tight, robust connections and guarantee reliable connections against vibration and shock. These models are also compliant with EN50155, covering power input voltage, surge, EFT, ESD, vibration and shock, making these switches suitable for industrial applications, such as vehicle, rolling stock, or vessel. With a wide power input range of 24/48/72/96/110VDC (operating range 20 to 137.5VDC), this product series is especially suitable for rolling stock and track side installations.

Features

- M12 and M23 fiber connector against vibration and shock, M12 X-code for Gigabit port
- STP, RSTP, MSTP, ITU-T G.8031 ERP, ITU-T G.8032 Ethernet Protection Ring (ERPS) for redundant cabling
- Provides up to 5 instances that each supports μ -Ring, μ -Chain or Sub-Ring type for flexible uses.
- (Please see CTC Union's $\mu\text{-Ring}$ white paper for more details)
- $\mu\text{-Ring}$ for Redundant Cabling, recovery time<10ms in 250 maximum devices
- Supports TTDP for train application
- Supports IEEE 1588 PTP V2 for precise time synchronization to operate in Ordinary-Boundary, Peer to Peer Transparent Clock, End to End Transparent Clock, Master, Slave mode by each port
- Supports EMS Management

Specifications		
Standard	IEEE 802.3	10Base-T 10Mbit/s Ethernet
	IEEE 802.3u	100Base-TX, 100Base-FX, Fast Ethernet
	IEEE 802.3ab	1000Base-T Gbit/s Ethernet over twisted pair
	IEEE 802.1d	STP (Spanning Tree Protocol)
	IEEE 802.1w	RSTP (Rapid Spanning Tree Protocol)
	IEEE 802.1s	MSTP (Multiple Spanning Tree Protocol)
	ITU-T G.8032 / Y.1344	ERPS (Ethernet Ring Protection Switching)
	ITU-T G.8031 / Y.1342	EPS (Ethernet Protection Switching)
	IEEE 802.1Q	Virtual LANs (VLAN)
	IEEE 802.1X	Port based and MAC based Network Access Control, Authentication
	IEEE 802.3ac	Max frame size extended to 1522Bytes
	IEEE 802.3ad	Link aggregation for parallel links with LACP (Link Aggregation Control Protocol)
	IEEE 802.1AX	Link aggregation for parallel links with LACP (Link Aggregation Control Protocol)
	IEEE 802.3x	Flow control for Full Duplex
	IEEE 802.3ac	Max frame size extended to 1522Bytes

www.ctcu.com / sales@ctcu.com / Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

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Standard		acked VLANs, Q-in-Q					
	IEEE 802.1p LAN Layer 2 QoS/CoS Protocol for Traffic Prioritization						
		k Layer Discovery Protocol (LLDP)					
		E (Energy Efficient Ethernet)					
VLAN ID	4094 IEEE802.1Q VLAN ID						
Switch Architecture							
Data Processing	Store and Forward						
	IEEE 802.3x for full duplex mode Back pressure for half duplex mode						
Network Connector	()	,	8-Pin, Female, X-Code) 10/100/1000Base-T U				
		ation speed, Auto MDI/ MDI-X, Full/	Half duplex function				
Canaala	Build-in 2x bypass GbE UTP po						
Console		1					
Network Gable	UTP/STP Cat. 5e cable or abov						
Protocols	EIA/TIA-568 100-ohm (100me	eter)					
	001111000						
Reverse Polarity Protection Overload Current Protection	Supported						
CPU Watch Dog	Supported						
•	P.P		t (Our en) Dir s Master (Archer)				
LED	UTP: 10/100 Link/Active (Gree	er 2 (Green), Fault (Amber), CPU Ac	a (Green), King Master (Amber)				
Jumbo Frame		n), Tooo Link/Active (Amber)					
	9.6KB						
	01/						
MAC Address Table	8K						
MAC Address Table Memory Buffer	512K Bytes for packet buffer						
MAC Address Table Memory Buffer Device Memory	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M		72/06/110/DC (16.8-137.5/DC) wide inc				
MAC Address Table Memory Buffer	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M		72/96/110VDC (16.8~137.5VDC) wide inpu				
MAC Address Table Memory Buffer Device Memory	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal		72/96/110VDC (16.8~137.5VDC) wide inpu				
MAC Address Table Memory Buffer Device Memory Power Supply	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power	e) for redundant dual DC 24/48/7	72/96/110VDC (16.8~137.5VDC) wide inpu				
MAC Address Table Memory Buffer Device Memory Power Supply	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power Input Voltage	e) for redundant dual DC 24/48/7 Device Power Consumption	72/96/110VDC (16.8~137.5VDC) wide inpu				
MAC Address Table Memory Buffer Device Memory Power Supply	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power Input Voltage 24VDC	e) for redundant dual DC 24/48/7 Device Power Consumption 17.1W	72/96/110VDC (16.8~137.5VDC) wide inpu				
MAC Address Table Memory Buffer Device Memory Power Supply Power Consumption	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power Input Voltage 24VDC 48VDC	e) for redundant dual DC 24/48/7 Device Power Consumption 17.1W 17.8W 19.8W	72/96/110VDC (16.8~137.5VDC) wide inpo 				
MAC Address Table Memory Buffer Device Memory Power Supply Power Consumption Warning Message	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power Input Voltage 24VDC 48VDC 110VDC System Syslog, SMTP/ e-mail of	e) for redundant dual DC 24/48/7 Device Power Consumption 17.1W 17.8W 19.8W					
MAC Address Table Memory Buffer Device Memory Power Supply Power Consumption Warning Message	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power Input Voltage 24VDC 48VDC 110VDC System Syslog, SMTP/ e-mail of	e) for redundant dual DC 24/48/7 Device Power Consumption 17.1W 17.8W 19.8W event message, alarm relay					
MAC Address Table Memory Buffer Device Memory Power Supply Power Consumption Warning Message Alarm Relay Contact	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power Input Voltage 24VDC 48VDC 110VDC System Syslog, SMTP/ e-mail of 5-pin A-code M12 male, Relay	e) for redundant dual DC 24/48/7 Device Power Consumption 17.1W 17.8W 19.8W event message, alarm relay					
MAC Address Table Memory Buffer Device Memory Power Supply Power Consumption Warning Message Alarm Relay Contact Operating Temperature	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power Input Voltage 24VDC 48VDC 110VDC System Syslog, SMTP/ e-mail of 5-pin A-code M12 male, Relay -40 ~ 75°C	e) for redundant dual DC 24/48/7 Device Power Consumption 17.1W 17.8W 19.8W event message, alarm relay					
MAC Address Table Memory Buffer Device Memory Power Supply Power Consumption Warning Message Alarm Relay Contact Operating Temperature Operating Humidity Storage Temperature Housing	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power Input Voltage 24VDC 48VDC 110VDC System Syslog, SMTP/ e-mail of 5-pin A-code M12 male, Relay -40 ~ 75°C 5% to 95% (Non-condensing)	e) for redundant dual DC 24/48/7 Device Power Consumption 17.1W 17.8W 19.8W event message, alarm relay outputs with current carrying capac					
MAC Address Table Memory Buffer Device Memory Power Supply Power Consumption Warning Message Alarm Relay Contact Operating Temperature Operating Humidity Storage Temperature	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power Input Voltage 24VDC 48VDC 110VDC System Syslog, SMTP/ e-mail of 5-pin A-code M12 male, Relay -40 ~ 75°C 5% to 95% (Non-condensing) -40 ~ 85°C	e) for redundant dual DC 24/48/7 Device Power Consumption 17.1W 17.8W 19.8W event message, alarm relay outputs with current carrying capac					
MAC Address Table Memory Buffer Device Memory Power Supply Power Consumption Warning Message Alarm Relay Contact Operating Temperature Operating Humidity Storage Temperature Housing Dimensions Weight	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power Input Voltage 24VDC 48VDC 110VDC System Syslog, SMTP/ e-mail of 5-pin A-code M12 male, Relay -40 ~ 75°C 5% to 95% (Non-condensing) -40 ~ 85°C Rugged Metal, Fanless and IPE 113 x 360 x 132mm (D x W x 3.9kg	e) for redundant dual DC 24/48/7 Device Power Consumption 17.1W 17.8W 19.8W event message, alarm relay outputs with current carrying capac					
MAC Address Table Memory Buffer Device Memory Power Supply Power Consumption Warning Message Alarm Relay Contact Operating Temperature Operating Humidity Storage Temperature Housing Dimensions Weight Installation Mounting	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power Input Voltage 24VDC 48VDC 110VDC System Syslog, SMTP/ e-mail of 5-pin A-code M12 male, Relay -40 ~ 75°C 5% to 95% (Non-condensing) -40 ~ 85°C Rugged Metal, Fanless and IPS 113 x 360 x 132mm (D x W x	e) for redundant dual DC 24/48/7 Device Power Consumption 17.1W 17.8W 19.8W event message, alarm relay outputs with current carrying capac					
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MAC Address Table Memory Buffer Device Memory Power Supply Power Consumption Warning Message Alarm Relay Contact Operating Temperature Operating Humidity Storage Temperature Housing Dimensions Weight Installation Mounting MTBF	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power Input Voltage 24VDC 48VDC 110VDC System Syslog, SMTP/ e-mail of 5-pin A-code M12 male, Relay -40 ~ 75°C 5% to 95% (Non-condensing) -40 ~ 85°C Rugged Metal, Fanless and IPS 113 x 360 x 132mm (D x W x 3.9kg Wall mounting 230,352 Hours (MIL-HDBK-21	e) for redundant dual DC 24/48/7 Device Power Consumption 17.1W 17.8W 19.8W event message, alarm relay outputs with current carrying capac					
MAC Address Table Memory Buffer Device Memory Power Supply Power Supply Power Consumption Warning Message Marm Relay Contact Operating Temperature Operating Humidity Storage Temperature Operating Humidity Storage Temperature Housing Dimensions Weight Installation Mounting MTBF Warranty Certification	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power Input Voltage 24VDC 48VDC 110VDC System Syslog, SMTP/ e-mail of 5-pin A-code M12 male, Relay -40 ~ 75°C 5% to 95% (Non-condensing) -40 ~ 85°C Rugged Metal, Fanless and IPS 113 x 360 x 132mm (D x W x 3.9kg Wall mounting 230,352 Hours (MIL-HDBK-21) 5 years	e) for redundant dual DC 24/48/7 Device Power Consumption 17.1W 17.8W 19.8W event message, alarm relay outputs with current carrying capac 4 grade housing protection H) 17)					
MAC Address Table Memory Buffer Device Memory Power Supply Power Supply Power Consumption Warning Message Warning Message Alarm Relay Contact Operating Temperature Operating Humidity Storage Temperature Housing Dimensions Weight Installation Mounting MTBF Warranty Certification EMC EMI (Electromagnetic	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power Input Voltage 24VDC 48VDC 110VDC System Syslog, SMTP/ e-mail (5-pin A-code M12 male, Relay -40 ~ 75°C 5% to 95% (Non-condensing) -40 ~ 85°C Rugged Metal, Fanless and IPE 113 x 360 x 132mm (D x W x 3.9kg Wall mounting 230,352 Hours (MIL-HDBK-21) 5 years CE (EN55024, EN55032) FCC Part 15 Subpart B Class A	e) for redundant dual DC 24/48/7 Device Power Consumption 17.1W 17.8W 19.8W event message, alarm relay outputs with current carrying capac 4 grade housing protection H) 17)					
MAC Address Table Memory Buffer Device Memory Power Supply Power Supply Power Consumption Warning Message Marm Relay Contact Operating Temperature Operating Humidity Storage Temperature Operating Humidity Storage Temperature Housing Dimensions Weight Installation Mounting MTBF Warranty Certification	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power Input Voltage 24VDC 48VDC 110VDC System Syslog, SMTP/ e-mail (5-pin A-code M12 male, Relay -40 ~ 75°C 5% to 95% (Non-condensing) -40 ~ 85°C Rugged Metal, Fanless and IPS 113 x 360 x 132mm (D x W x 3.9kg Wall mounting 230,352 Hours (MIL-HDBK-21) 5 years CE (EN55024, EN55032)	e) for redundant dual DC 24/48/7 Device Power Consumption 17.1W 17.8W 19.8W event message, alarm relay outputs with current carrying capac 4 grade housing protection H) 17)					
MAC Address Table Memory Buffer Device Memory Power Supply Power Supply Power Consumption Warning Message Alarm Relay Contact Operating Temperature Operating Humidity Storage Temperature Operating Humidity Storage Temperature Housing Dimensions Weight Installation Mounting MTBF Warranty Certification EMI (Electromagnetic Interference) Railway Traffic	512K Bytes for packet buffer 16M Bytes Flash ROM, 128M Provides 1x M23 (5-Pin, mal power 24VDC 48VDC 110VDC System Syslog, SMTP/ e-mail (5-pin A-code M12 male, Relay -40 ~ 75°C 5% to 95% (Non-condensing) -40 ~ 85°C Rugged Metal, Fanless and IPE 113 x 360 x 132mm (D x W x 3.9kg Wall mounting 230,352 Hours (MIL-HDBK-21) 5 years CE (EN55024, EN55032) FCC Part 15 Subpart B Class A EN50155, EN50121-4	e) for redundant dual DC 24/48/7 Device Power Consumption 17.1W 17.8W 19.8W event message, alarm relay outputs with current carrying capac 4 grade housing protection H) 17)					

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EMS	EN61000-4-2 (ESD) Level 3, Criteria B
(Electromagnetic Susceptibility)	EN61000-4-3 (RS) Level 3, Criteria A
Protection Level	EN61000-4-4 (Burst) Level 3, Criteria A
	EN61000-4-5 (Surge) Level 3, Criteria B
	EN61000-4-6 (CS) Level 3, Criteria A
	EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A
Hi Pot Protection	DC 2.25KV for power to chassis ground, Ethernet port to chassis ground
4KV Surge Protection	Supported for UTP port
Safety	EN62368-1
Shock	IEC-61373
Freefall	IEC 60068-2-32
Vibration	IEC-61373

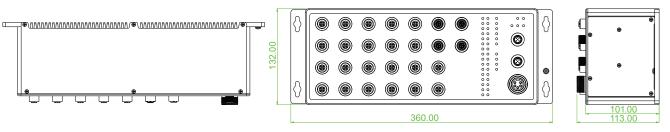
Software Specific	ations				
Topology					
	IEEE 802.1g VLAN, up to 4094 802.1Q VLAN ID				
	IEEE 802.1q VLAN, up to 4094 Groups				
	IEEE 802.1ad Q-in-Q				
	MAC-based VLAN, up to 256 entries				
	IP Subnet-based VLAN, up to 128 entries Protocol-based VLAN (Ethernt, SNAP, LLC), up to 128 entries				
	VLAN Translation, up to 256 entries				
	Private VLAN for port isolation				
	GVRP (GARP VLAN Registration Protocol)				
	MVR (Multicast VLAN Registration)				
	Voice VLAN				
Link Aggregation	Static (Hash with SA, DA, IP, TCP/UDP port), up to 5 trunk group				
(Port Trunk)	Dynamic (IEEE 802.3ad LACP), up to 5 trunk group				
	Support IEEE802.1AX passive and active mode				
Spanning Tree	IEEE802.1d STP, IEEE802.1w RSTP, IEEE802.1s MSTP				
Multiple µ-Ring	Up to 5 instances that each supports µ-Ring, µ-Chain or Sub-Ring type for flexible uses, and maximum up to 5 Ring				
	Recovery time <10ms				
	The maximum number of device is allowed 250 nodes in a Ring.				
Loop Protection	Supported				
ITU-T G.8032 / Y.1344 ERPS	Recovery time <10ms				
(Ethernet Ring Protection)	Single Ring, Sub-Ring, Multiple ring topology network				
ITU-T G.8031 / Y.1342 EPS (Ethernet Protection Switching)	Supported				
QoS Feature					
Class of Service	IEEE802.1p 8 active priorities queues per port				
Traffic Classification QoS	IEEE802.1p based CoS				
	IP Precedence based CoS				
	IP DSCP based CoS				
	QCL (QoS Control List): Frame Type, Source/Destination MAC, VLAN ID, PCP, DEI, Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number				
Bandwidth Control for Ingress	100~1,000,000 when the "Unit" is "kbps", and 1~1,000 when the "Unit" is "Mbps"				
Bandwidth Control for Egress	100~1,000,000 when the "Unit" is "kbps", and 1~1,000 when the "Unit" is "Mbps"				
	Rate Unit : bit Per queue / Port shaper				
DiffServ (RF 2474) Remarking					
Storm Control	For Unicast, Broadcast and Multicast				

IGMP / MLD Snooping	ature
Min / Min Shoopilly	IGMP Snooping v1, v2, v3 / MLD Snooping v1, v2
	Port Filtering Profile, Throttling Fast Leave
	Past Leave Maximum Multicast Group : up to 1022 entries
	Query / Static Router Port
Security Features	
IEEE 802.1X	
ACL	Number of rules : up to 256 entries for L2 / L3 / L4
	L2: Mac address SA/DA/VLAN L3: IP address SA/DA, Subnet L4: TCP/UDP
RADIUS	Authentication & Accounting
TACACS+	Authentication
HTTPS, HTTP	Supported
SSL / SSH v2	Supported
User Name Password	Local Authentication
Authentication	Remote Authentication (via RADIUS / TACACS+)
Management Interface Access Filtering	Web, Telnet / SSH, CLI, RS-232 console
Management Featu	res
CLI	Cisco® like CLI
Web UI	Supported
Telnet	Server
SNMP	V1, V2c, V3
sFlow	Supported
Modbus/TCP	Supports for management and monitoring
& Configuration Upgrade	TFTP, HTTP
	Redundant firmware in case of upgrade failure
FTP client	
RMON	
MIB II	
UPnP	Supported
BOOTP	Supported
DHCP	Server, Client, Relay, Relay option 82, Snooping
RARP	Supported
TTDP	Supported (Train Topology Discovery Protocol)
IP Source Guard	Supported
Port Mirroring	Supported
Event Syslog	Syslog server (RFC3164)
Warning Message	System syslog, e-mail, alarm relay
DNS	Client, Proxy
IEEE1588 PTP V2	Supports 5 operating mode in each port :
ILLLIJUU FIF VZ	Ordinary-Boundary, Peer to Peer Transparent Clock, End to End Transparent Clock, Master and Slave
NTP, SNTP	Client
LLDP	Link Layer Discovery Protocol
(IEEE 802.1ab)	LLDP-MED
IPv6 Features	
IPv6 Management	Telnet Server/ICMP v6
SNMP over IPv6	Supported
HTTP over IPv6	Supported
SSH over IPv6	Supported
SSH over IPv6 IPv6 Telnet	Supported Supported

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Supported
Supported
Number of rules: up to 256 entries
for L2 / L3 / L4 L2: Mac address SA/DA/VLAN L3: IP address SIP, Subnet (32bit) L4: TCP/UDP
Supports IEEE802.3az EEE (Energy Efficient Ethernet) Management to optimize the power consumption
Determine the cable length and lowering the power for ports with short cables
Lower the power for a port when there is no link
LED Power Management: Adjustment LEDs intensity
Measuring UTP cable OK or broken point distance

Dimensions



Rear View

Front View

Side View

Ordering Information

				FE	GbE		
Model Name	Managed Protection Total F	Total Port	D-Code M12	GbE X-code M12 UTP	GbE X-code M12 UTP Bypass		
ITP-2204GTM-E-BP	V	IP54	26	22	2	2	

Redundant Dual Input Power	Certification				
24/48/72/96/110VDC (16.8~137.5VDC)	EN45545-2	EN50155 / EN50121-4	EN61000-6-2 / EN61000-6-4	CE, FCC	IEC61373
V	V	V	V	V	V

Optional Accessories

Optional Cable/Connector

P/N: CAB-M12XM8-RJ45 M12 X-code Male (8-Pin) to RJ-45, AWG 24 ,IP67, 1 meter



For GbE UTP (X-code)

P/N: CAB-M23F5-OPEN M23 Female (5-Pin) to open wire, (AWG 16) , IP67, 1 meter



P/N: CAB-M12DM4-RJ45

M12 D-code Male (4-Pin) to RJ-45, AWG 24 ,IP67, 1 meter



For FE UTP

P/N: M12D-M4 M12 D-code Male (4-Pin) connector, IP67



P/N: CAB-M12AF5-OPEN

M12 A-code Female (5-Pin) to open wire , AWG 22 , IP67, 1 meter



For Alarm

P/N: M12A-F5 M12 A-code Female (5-Pin) connector, IP67

