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TI-Rugged Switches



Rugged Ethernet switch

Model No -TI-RES-10C-04F



14 Port L3 Managed Ethernet Switch



JSS 55555

- 14 ports with 10 copper with 1G + 4 fiber
- RSTP, MSTP, ERPS, MRP, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism
- Supports IGMP Snooping v1/v2/v3, up to 512 groups
- DHCP Relay Option 82 for policies IP address assignment
- SNMP v1/v2c/v3 for network management
- Supports Storm Protection
- USB storage for configuration-free replacement
- Supports industrial automation protocols Ethernet/IP and Modbus TCP
- 45sec booting time.

Specifications

Technology

IEEE 802.3ae 10GBase over Fiber
 IEEE 802.3x Flow Control
 IEEE 802.3az Energy-Efficient Ethernet
 IEEE 802.3ad/802.1AX LACP
 IEEE 802.1D Spanning Tree Protocol
 IEEE 802.1w Rapid STP
 IEEE 802.1s Multiple STP
 ITU-T G.8032 / Y.1344 ERPS
 IEEE 802.1Q VLAN Tagging
 IEEE 802.1ad Stacked VLANs
 IEEE 802.1p Class of Service
 IEEE 802.1X Network Authentication
 IEEE 802.1AB LLDP
 IEEE 1588 PTP

Processing Type Store and Forward

Switch Properties

Switch Fabric 480Gbps

Priority Queues 8 Queues

Jumbo Frame 12288bytes

MAC Table Size 32K

Packet Buffer 32Mbits

CPU Memory Flash: 4GB
 DDR3 SDRAM: 8GB

VLAN Table Size 4094

IGMP Group 512

ACL Group 512

VLAN IP Entries 32

Routing Entries (IPv4/IPv6) 512/256 host, 64/64 LPM

Software Feature

Network Redundancy RSTP, MSTP, G.8032 ERPSv2, IEC 62439-2 MRP, Port Trunking with LACP

Boot Time <45 Seconds

Security 802.1X, RADIUS, TACACS+, SSL, SSH

Management IPv4, IPv6, Web, Telnet, Serial Console, CLI, SNMP v1/v2c/v3, uPnP

Diagnostics RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP

Configuration DHCP Server/Client, Relay Option 82, TFTP, USB

Filter 802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2/v3, IGMP Querier, Independent Vlan Learning

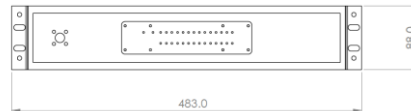
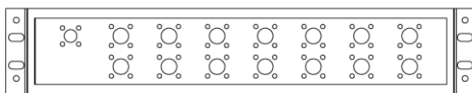
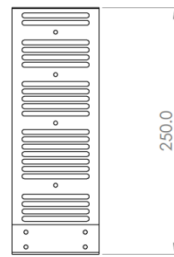
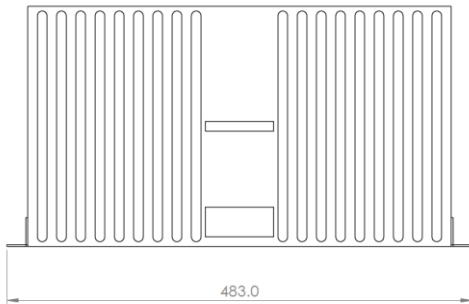
Time Sync. NTP, IEEE1588v2 OC (Software Timestamp), TC (Hardware Timestamp)

QoS CoS, DSCP, WRR/SPQ Queuing, Storm Protection

Industrial Profiles	Ethernet/IP, Modbus TCP, Profinet
L3 Switching	Static Routing, RIP v1/v2, RIPng, OSPF v2, OSPF v3, VRRP v2
Interface	
RJ45	10 X 10/100T(x), auto negotiation speed duplex mode, auto MDI/MDI-X
Fiber Port	4 X SFP slot.
LED Indicators	Per unit: PWR, Fault, Ring Master, Ring State Ports: Link/Active with highest speed (Green), low speed (Amber)
Button	Multiple functions reset button
Serial Console	1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1
Storage	1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog
Power Requirements	
Operation Voltage	100~240 AC power supply
Power Consumption	25W
Protection	Overload Current Protected
Mechanical Construction	

Enclosure	Rugged aluminum.
Protection Class	IP65
Dimensions	483x88x250 mm (WxHxD)
Weight	6 kg (Approx.)
Mounting	Rack Mounting
Environmental Limits	
Operating Temperature	Standard: -20°C ~ 80°C
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (Non-Condensing)
Environmental Conditions	
EMI	461G
MIL-STD	810G
Free Fall	JSS55555
Shock	JSS55555
Vibration	JSS55555
Green	RoHS Compliant
MTBF	>100,000 hours
Warranty	3 Years

Dimensions in mm



Ordering information	
TI-RES-10C-04F	10+ 4 rugged L3 managed switch. -2U racks mount with 10x 10/100/1000T(x)+ 4x 10G MM -100~250V AC input -D38999 connectors rear side -front LED indicators -L angle mount
TI-RES-10C-04F-SM	10+ 4 rugged L3 managed switch. -2U racks mount with 10x 10/100/1000T(x)+ 4x 10G SM FO -100~250V AC input -D38999 connectors rear side -front LED indicators -L angle mount
TI-RES-10C-04F-D	10+ 4 rugged L3 managed switch. -2U racks mount with 10x 10/100/1000T(x)+ 4x 10G MM FO -12~48VDC input -D38999 connectors rear side -front LED indicators -L angle mount
TI-RES-10C-04F-SM-D	10+ 4 rugged L3 managed switch. -2U racks mount with 10x 10/100/1000T(x)+ 4x 10G SM FO -12~48VDC input -D38999 connectors rear side -front LED indicators -L angle mount

Optional Accessories	
14RSOA-01C	1 set of matting connectors with 5m cable length other side RJ 45 metal crimp connector
14RSOA-02C	1 set of matting connectors with 5m cable length other side D38999 cable mount connector
14RSOA-03FM	Single mode FO connector with 10kms
14RSOA-04FM	Single mode FO connector with 30kms
14RSOA-05MA	19" rack mount With slide rails
14RSOA-06MDC	1 set of metallic dust caps with chain

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