

TRC-2190 Series

18-slot rackmount chassis managed media converters



Features and Benefits

- 19-inch chassis for rackmount use
- 18 slots for high-density applications
- Supports dual power inputs with redundancy
- Fanless chassis design reduces servicing costs
- SNMP/web console for easy management
- -20 to 55°C operating temperature range

Certifications



Introduction

The TRC-2190 Series provides 18 slots for media converter modules from the CSM-400 Series of Ethernet-to-fiber management modules. It also supports SNMP/web console for remote management and monitoring. A TRC-2190 chassis comes with one AC or DC power input, with an optional redundant power expansion module available for greater reliability. The TRC-2190 Series' power input module supports a fanless chassis design, as well as a -20 to 55°C operating temperature range.

Specifications

Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	2
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Ethernet Software Features

Industrial Protocols	SNMPv1/v2c, SNMPv1/v2c Trap
Management	DHCP Client, IPv4/IPv6, SNMPv1/v2c, Syslog, TCP/IP, Telnet, TFTP, UDP, Web Console
MIB	MIB-II
Security	HTTPS/SSL, Local Account Accessibility, TACACS+, RADIUS, SSH
Time Management	NTP Client

Power Parameters

Input Voltage	TRC-2190-AC: 110 to 240 VAC, TRC-2190-DC-48V: 36 to 53 VDC
No. of Power Inputs	2
Overload Current Protection	Supported
Power Consumption	TRC-2190-AC: 0.9 mA @ 110 VAC TRC-2190-DC-48V: 2.1 mA @ 48 VDC

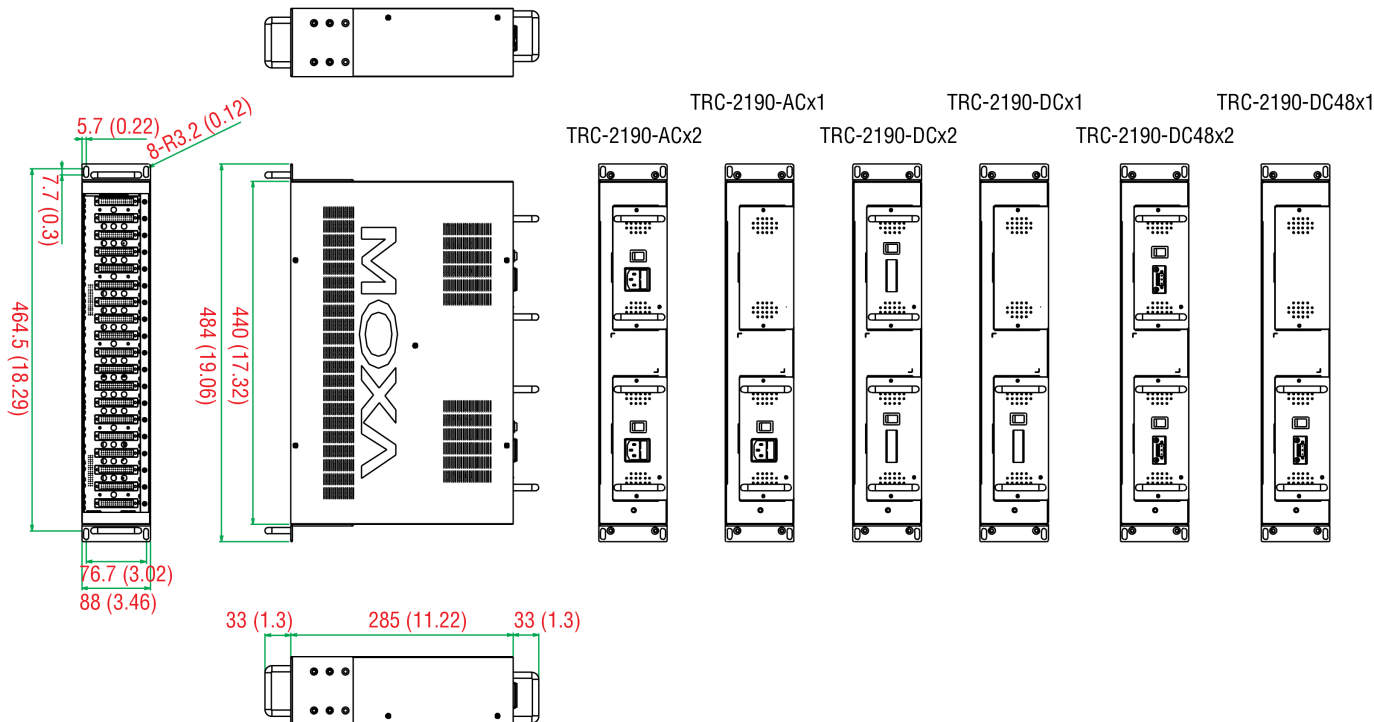
Physical Characteristics

IP Rating	IP30
Dimensions	440 x 260 x 77 mm (18.6 x 11 x 3.3 in)

Weight	5.2 g (11.4 lb)
Installation	19-inch rack mounting
Environmental Limits	
Operating Temperature	-20 to 55°C (-4 to 131°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Standards and Certifications	
EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF
Environmental Testing	IEC 60068-2-1 IEC 60068-2-14 IEC 60068-2-2 IEC 60068-2-3
Safety	EN 60950-1, IEC 60950-1
Vibration	IEC 60068-2-6
MTBF	
Time	1,055,112 hrs
Standards	Telcordia (Bellcore), GB
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x TRC-2190 Series converter
Documentation	1 x quick installation guide 1 x warranty card
Note	This product requires additional modules (sold separately) to function.

Dimensions

Unit: mm (inch)



Ordering Information

Model Name	Input Voltage
TRC-2190-AC	100-240 VAC (47-63 Hz)
TRC-2190-DC-48V	36-53 VDC

Accessories (sold separately)

Brackets

Plate-1	TRC-190 bracket accessory package, 9 brackets, 9 screws (FMS M3 X 6)
BKT-PWR	TRC-190 DIN-rail accessory package, 2 L-shaped metal plates, 8 screws (FMS M4 x 6mm)

Communication Modules

TCF-142-M-SC-RM	RS-232/422/485 to multi-mode fiber slide-in module converter, SC connector
TCF-142-M-ST-RM	RS-232/422/485 to multi-mode fiber slide-in module converter, ST connector
TCF-142-S-SC-RM	RS-232/422/485 to single-mode fiber slide-in module converter, SC connector
TCF-142-S-ST-RM	RS-232/422/485 to single-mode fiber slide-in module converter, ST connector
CSM-200-1213	10/100BaseT(X) to 100BaseFX slide-in module media converter, multi-mode ST connector
CSM-200-1214	10/100BaseT(X) to 100BaseFX slide-in module media converter, multi-mode SC connector
CSM-200-1218	10/100BaseT(X) to 100BaseFX slide-in module media converter, single-mode SC connector
CSM-400-1213	10/100BaseT(X) to 100BaseFX slide-in management module converter, multi-mode ST connector, -20 to 55°C
CSM-400-1213-T	10/100BaseT(X) to 100BaseFX slide-in management module converter, multi-mode ST connector, -40 to 75°C
CSM-400-1214	10/100BaseT(X) to 100BaseFX slide-in management module converter, multi-mode SC connector, -20 to 55°C
CSM-400-1214-T	10/100BaseT(X) to 100BaseFX slide-in management module converter, multi-mode SC connector, -40 to 75°C

CSM-400-1218	10/100BaseT(X) to 100BaseFX slide-in management module converter, single-mode SC connector, -20 to 55°C
CSM-400-1218-T	10/100BaseT(X) to 100BaseFX slide-in management module converter, single-mode SC connector, -40 to 75°C
CSM-400-1224	10/100BaseT(X) to 100BaseFX slide-in management module converter, WDM-A single-mode SC connector, -20 to 55°C
CSM-400-1224-T	10/100BaseT(X) to 100BaseFX slide-in management module converter, WDM-A single-mode SC connector, -40 to 75°C
CSM-400-1225	10/100BaseT(X) to 100BaseFX slide-in management module converter, WDM-B single-mode SC connector, -20 to 55°C
CSM-400-1225-T	10/100BaseT(X) to 100BaseFX slide-in management module converter, WDM-B single-mode SC connector, -40 to 75°C

Power Cords

PWC-C13AU-3B-183	Power cord with Australian (AU) plug, 1.83 m
PWC-C13CN-3B-183	Power cord with three-prong China (CN) plug, 1.83 m
PWC-C13EU-3B-183	Power cord with Continental Europe (EU) plug, 1.83 m
PWC-C13JP-3B-183	Power cord with Japan (JP) plug, 7A/125V, 1.83 m
PWC-C13UK-3B-183	Power cord with United Kingdom (UK) plug, 1.83 m
PWC-C13US-3B-183	Power cord with United States (US) plug, 1.83 m

Power Supplies

PWR-2190-AC	110 to 240 VAC power supply for the TRC-2190-AC
PWR-2190-DC-48	36 to 53 VDC power supply for the PWR-2190-DC-48

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