

# TRC-2190 Series

## 18-slot rackmount chassis managed media converter



### 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

### Security Functions

Authentication	Local database (password only) RADIUS TACACS+
Encryption	HTTPS, AES-128, AES-256, RSA-1024, SHA-1, SHA-256, SHA-384
Security Protocols	SNMPv3 SSHv2 HTTPS (TLS 1.2)

## Power Parameters

Input Voltage	TRC-2190-AC: 110 to 240 VAC TRC-2190-DC-48V: 48 VDC
No. of Power Inputs	2
Overload Current Protection	Supported
Power Consumption	TRC-2190-AC: 1.5 A @ 100 to 240 VAC TRC-2190-DC-48V: 3.2 A @ 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 55032/35
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: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 2 kV(AC), 1 kV(DC); Signal: 1 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	UL 62368-1, IEC 62368-1
Vibration	IEC 60068-2-6

## MTBF

Time	1,055,112 hrs
Standards	Telcordia (Bellcore), GB

## Warranty

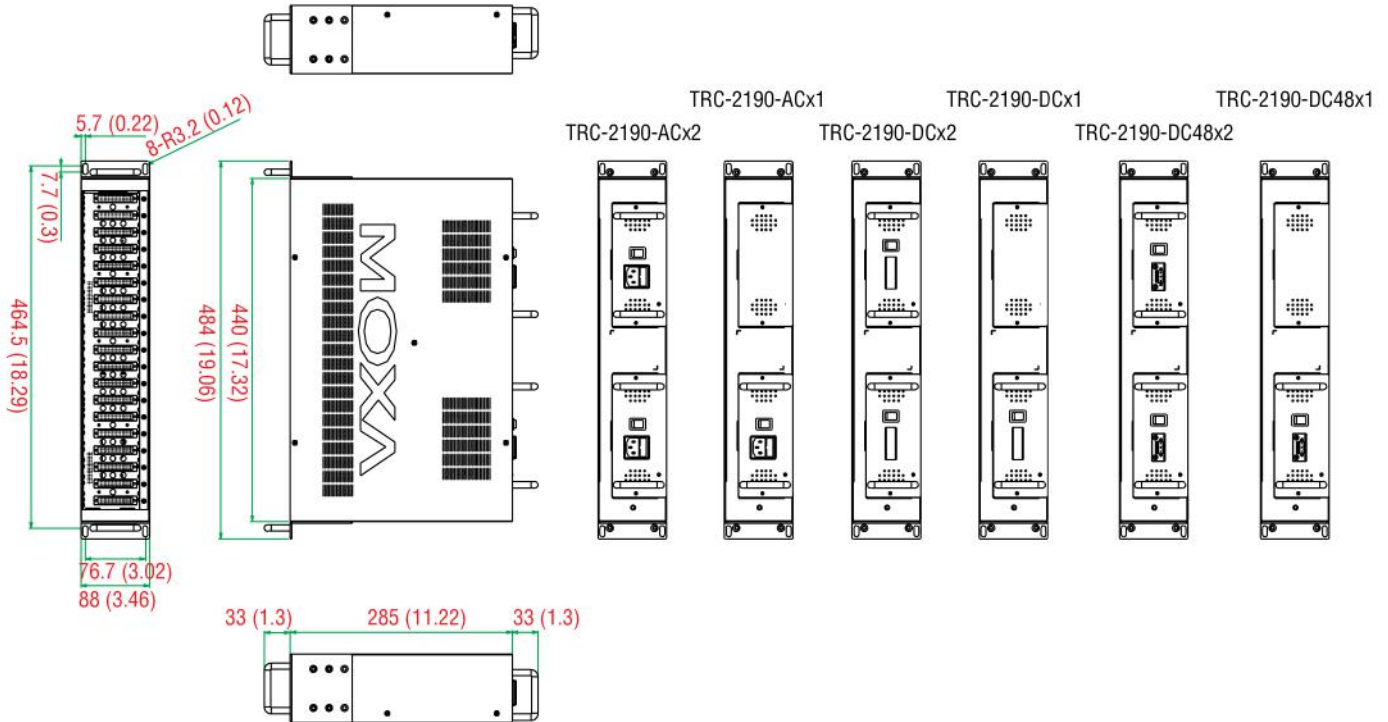
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a>

## 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	48 VDC

## Accessories (sold separately)

### Brackets

Plate-1	Chassis converter bracket accessory package, 9 brackets, 9 screws (FMS M3 X 6 mm)
BKT-PWR	Chassis converter rackmount kit accessory package, 2 L-shaped metal plates, 8 screws (FMS M4 x 6 mm)

### Communication Modules

CSM-400-1213	10/100BaseT(X)-to-100BaseFX slide-in management module converter with ST connector, multi-mode, 0 to 55°C operating temperature
CSM-400-1213-T	10/100BaseT(X) to 100BaseFX slide-in management module converter, multi-mode ST connector, -40 to 75°C operating temperature
CSM-400-1214	10/100BaseT(X) to 100BaseFX slide-in management module converter, multi-mode SC connector, -20 to 55°C operating temperature
CSM-400-1214-T	10/100BaseT(X) to 100BaseFX slide-in management module converter, multi-mode SC connector, -40 to 75°C operating temperature

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

#### Power Cords

PWC-C13AU-3B-183	Power cord with AU plug, 1.83 m
PWC-C13CN-3B-183	Power cord with three-prong CN plug, 1.83 m
PWC-C13EU-3B-183	Power cord with EU plug, 1.83 m
PWC-C13JP-3B-183	Power cord with JP plug plug, 7A/125V, 1.83 m
PWC-C13UK-3B-183	Power cord with UK plug, 1.83 m
PWC-C13US-3B-183	Power cord with US plug, 1.83 m

#### Power Supplies

PWR-2190-AC	110 to 240 VAC power supply for the TRC-2190-AC
PWR-2190-DC-48V	36 to 53 VDC power supply for the TRC-2190-DC-48
ME-10-T	1-slot chassis with redundant 12 to 48 VDC power inputs

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