

# TRC-190 Series

## 19-inch rackmount chassis media converters



### Features and Benefits

- 19-inch chassis for rackmount use
- 19 slots for high-density applications
- Supports dual power inputs with redundancy
- Fanless chassis design reduces servicing costs

### Certifications



## Introduction

The TRC-190 rackmount chassis provides 19 slots for media converter modules from the CSM-200 Series of Ethernet-to-fiber modules and TCF-142-RM Series of serial-to-fiber modules. A TRC-190 chassis comes with one AC or DC power input, with an optional redundant power expansion AC or DC module available to enhance reliability. The PWR-190-AC and PWR-190-DC-48 power modules can be installed at the same time.

## Specifications

### Power Parameters

Input Voltage	TRC-190-AC: 110 to 240 VAC TRC-190-DC-48: 36 to 53 VDC Redundant dual inputs
No. of Power Inputs	2
Overload Current Protection	Supported
Power Consumption	TRC-190-AC: 0.9 A @ 110 VAC TRC-190-DC-48: 2.1 A @ 48 VDC

### Physical Characteristics

Dimensions	440 x 260 x 88 mm (17.32 x 10.24 x 3.46 in)
Installation	19-inch rack mounting
IP Rating	IP30
Weight	5200 g (11.4 lb)

### Environmental Limits

Ambient Relative Humidity	5 to 95% (non-condensing)
Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature (package included)	-20 to 75°C (-4 to 167°F)

## 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 60068-2-2 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

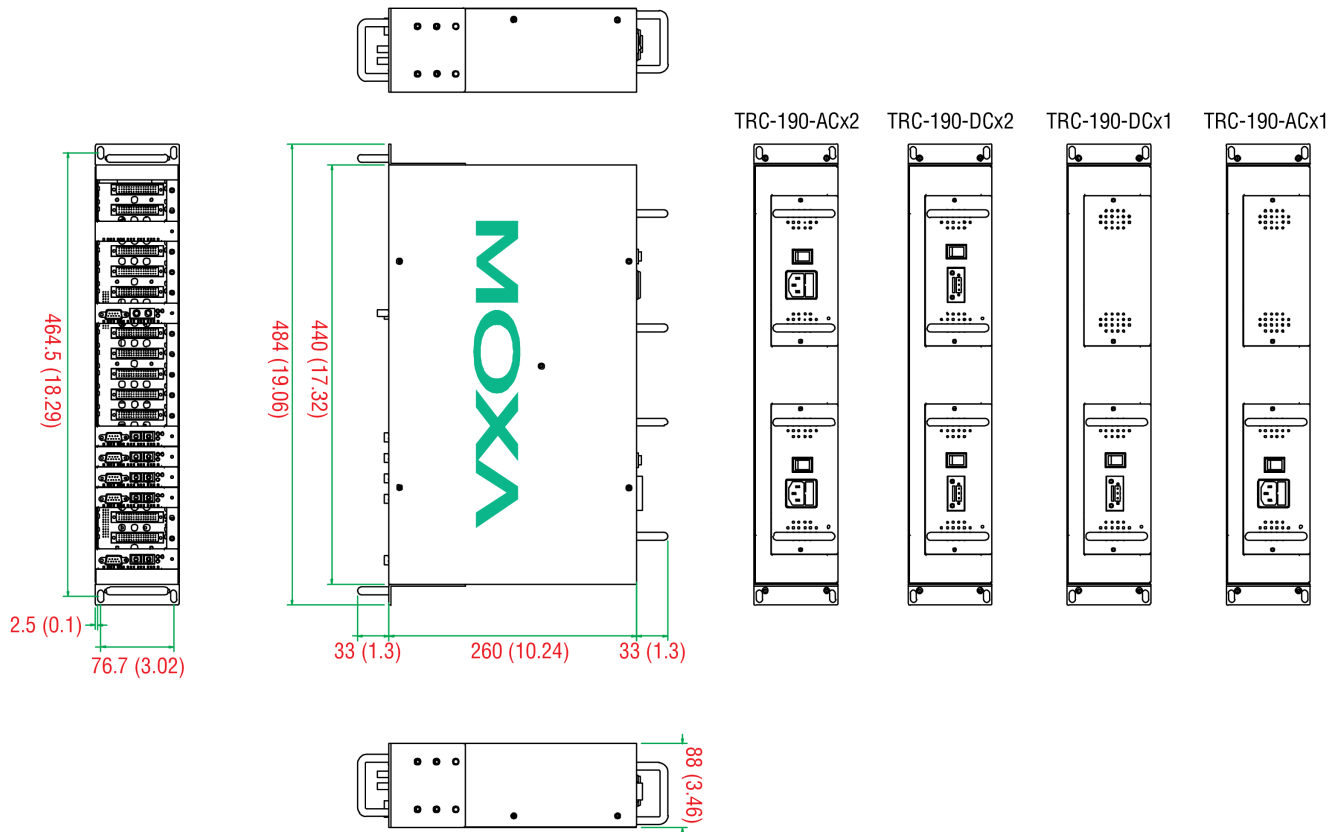
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a>

## Package Contents

Device	1 x TRC-190 Series converter
Bracket	18 x faceplate and screws
Power Supply	1 x power cord
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-190-AC	100-240 VAC (47-63 Hz)
TRC-190-DC-48	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-190-AC	110 to 240 VAC power supply for the TRC-190-AC
PWR-190-DC-48	36 to 53 VDC power supply for the TRC-190-DC-48

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