

# TRC-190 Series

## Rackmount chassis for the N Rack System™



- > 19-inch chassis for rackmount use
- > 19 slots for high density applications
- > Supports hot-swap and dual power input with redundancy
- > Fanless chassis design reduces servicing costs



### Introduction

The TRC-190 series 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 module available for greater reliability. The TRC-190 series' power input module supports the hot-swap feature.

### Specifications

#### Physical Characteristics

**Housing:** SECC (1.2 mm)

**Dimensions:** 440 x 260 x 77 mm (18.6 x 11 x 3.3 in)

**Weight:** 5.2 kg (11.4 lb), with one power module installed

**Number of Slots:** 19 slots on the front for slide-in modules, 2 slots at the back for power supply modules

#### Environmental Limits

**Operating Temperature:** 0 to 60°C (32 to 140°F)

**Storage Temperature:** -20 to 75°C (-4 to 167°F)

**Ambient Relative Humidity:** 5 to 95% (non-condensing)

#### Power Requirements

**Input Voltage:** Universal 100 to 240 VAC (47 to 63 Hz) or ±48 VDC (36 to 72 VDC and -36 to -72 VDC) or 220 VDC

**Input Current:**

3.2 A @ 36 VDC max.

#### Standards and Certifications

**Safety:** UL 60950-1, EN 60950-1

**EMC:** CE, FCC

**EMI:** EN 55022 Class A, FCC Part 15 Subpart B Class A

**EMS:**

EN 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV

EN 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m

EN 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV

EN 61000-4-5 Surge: Power: 1 kV; Signal: 0.5 kV

EN 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m

EN 61000-4-8 PFMF

EN 61000-4-11

**Green Product:** RoHS, CRoHS, WEEE

**MTBF** (mean time between failures)

**Time:** 1,055,112 hrs

**Standard:** Telcordia (Bellcore), GB

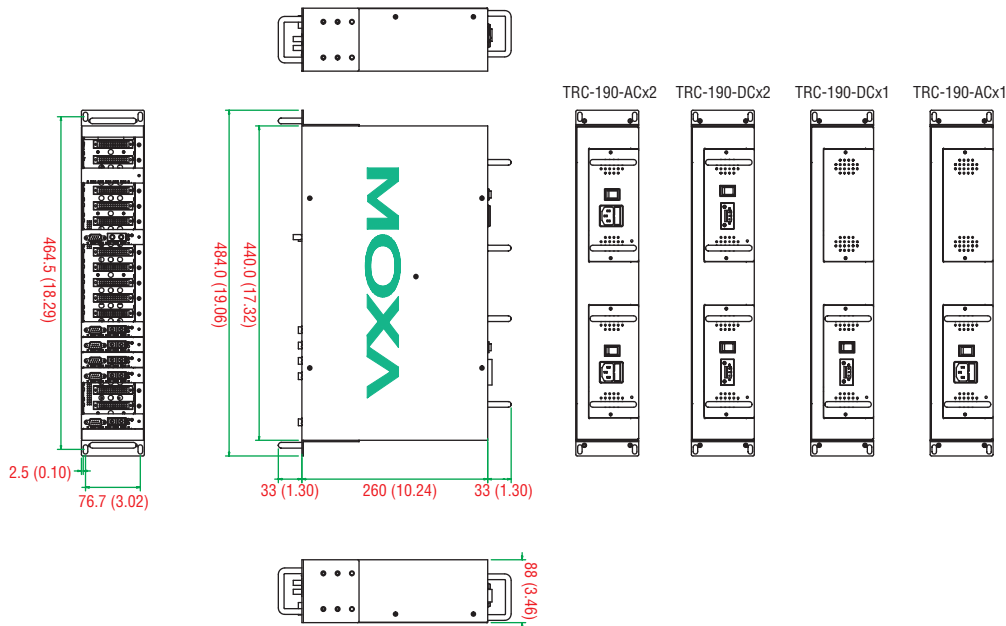
#### Warranty

**Warranty Period:** 5 years

**Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

## Dimensions

Unit: mm (inch)



## : Ordering Information

### Available Models

**TRC-190-AC:** Rack chassis, 2U, single 110 to 240 VAC input, with 19 slots on front panel

**TRC-190-DC-48:** Rack chassis, 2U, single 36 to 72 VDC input, with 19 slots on front panel

### Available Slide-in Modules

**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

**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

### Optional Accessories (can be purchased separately)

**PWR-190-AC:** 110 to 240 VAC power supply for the TRC-190-AC

**PWR-190-DC-48:** 36 to 72 VDC power supply for the TRC-190-DC-48

**Plate-1:** Face plate to cover unused front panel slots (required for all unused slots)

### Package Checklist

- 1 TRC-190 with single power input
- Power cord (for the TRC-190-AC only)
- 17 face plates
- User's manual (printed)
- Warranty card