



2.4GHz Radio Transceiver Product Specifications

CRT-2400 / CRT-2400CE*

Overview

The Radio Transceiver (RT) houses a radio (2.4GHz) with corresponding antennas and serves as an access point, enabling RF communications with CrewCom Radio Packs. Using CrewNet as a backbone, RTs can be positioned throughout a wide coverage area by being connected to a Control Unit either directly or through a Hub(s), or connected in a daisy-chain configuration.

Key Features

- Supports up to 6 Radio Packs
- CrewNet connections (etherCon or duplex LC Single Mode Fiber) with network status indicators
- Status indicators for data RX/TX, operation mode, and error
- Easy expandability from one RT to up to seven additional RTs in a daisy chain via the RT Loop connection (total of eight)
- Micro USB connection for firmware updates
- Integrated Ping function, which uses an LED to physically identify a target device
- Dual powering options
 - » Network power (Power over CrewNet)
 - » External power (48VDC) (sold separately)

What's in the Box?

- Radio Transceiver
- USB A to Micro B cable
- Cat 5e cable, 4.6 m (15 ft.)
- Product Overview Guide
- Mounting Hardware/Bracket
- Omni-Directional Antenna (x2)
- Warranty Extension Registration Card

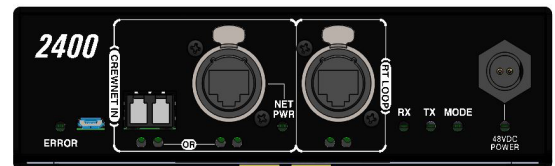
Accessories

- TMA-ANTSYS-09C 2.4GHz 9dBi Directional Corner Reflector Antenna Kit
- PAN-CP24-KIT** 2.4GHz 12dBi CP Beam Antenna Kit
- PPS-48V 48VDC External Power Supply

Specification***	CRT-2400
RF Frequency (MHz)	2400–2483 MHz
RF Scheme	FHSS with TDMA
Effective Radiated Power	100 mW (+20dBm)
Receiver Sensitivity	-100dBm at 10 ⁻⁵ BER
Radio Certification	FCCID: HSW-CCT24 and IC: 4492A-CCT24
Transmission Range	150 m (500 ft.) under typical conditions; 450 m (1500 ft.) line of sight Note: Functional range depends on many variables, including RF signal absorption, reflection, and external interference.
No. of Radio Packs Supported	6
Number of Antenna Connections per RT	2
Antenna Connector Type	RP-TNC
Supplied Antenna	+2dBi Omni-directional (whip)
CrewNet In Port (supports 1 connection)	(1) RJ-45 for copper; (1) duplex LC for Single Mode Fiber
RT Loop Port	(1) RJ-45
Maximum Line Length	Copper 100 m (330 ft.); Fiber 10,000 m (32,800 ft.)
Network Power (Power over CrewNet)	CrewNet RJ-45 only
External Power	48VDC Power Supply (Sold Separately)
Dimensions without Antennas (L x W x H)	16 cm x 19.7 cm x 4.6 cm (6.30 in. x 7.74 in. x 1.81 in.)
Weight	567 g (1.25 lbs)
Operating Environment	-20° to 50° C (-4° to 122° F); 10% to 90% Humidity
Maximum Altitude	3,000 m (9,842 ft.)
RoHS	Yes



CRT-2400 / CRT-2400CE*
2.4GHz Radio Transceiver
(Front View)



CRT-2400 / CRT-2400CE*
2.4GHz Radio Transceiver
(Bottom View)

CE *The CRT-2400CE model meets the same specifications and complies with ETSI standards (300.328 v1.8.1). Non-CE models are non-compliant with some ETSI standards.

**PAN-CP24-KIT is not approved for use in Europe.

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*** Notice About Specifications: While Pliant makes every attempt to maintain the accuracy of the information contained in this document, this information is subject to change without notice. Please check our website for the latest system specifications and certifications.

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