

## 2.4 GHz Wireless Rack Mount Master Clocks



RC102R



### Highlights

- OXCO Oscillator that is accurate to 2 PPB (parts per Billion) or 1 second over 20 years
- Accuracies of 0.2 PPB utilizing an DOXCO Option and 0.05 PPB utilizing the Rubidium Atomic Oscillator Option
- NTP Time Synchronization Standard, Wireless GPS is optional
- Synchronizes time across your facility or campus using multipath technology
- Automatically adjusts time for daylight savings time (DST)
- Supports dual redundant master clock operation
- Dual redundant time sources (GPS & NTP)
- Ability to have redundant master clocks that automatically switch between primary and secondary.
- Provides time updates to secondary devices 86,400 times per day
- 2.4 GHz, Direct Sequence, Spread Spectrum Technology
- Operates on the Industrial, Scientific and Medical band
- DuraTime clocks advanced digital radio technology has 16 times the transmit power of competing clock systems.
- Rule based method for setting DST, makes it easy to update Government DST rule changes
- Designed to operate on Ethernet standards IPv4 and Ipv6
- No FCC license required
- AES 128 bit data encryption for secure, reliable communications
- Ideal replacement clock system for expensive to maintain hardwired clocks
- Energy efficient operation
- Assembled in the U.S.A.
- Patents Pending
- FCC part 15.247 certified, CE certified

# 2.4 GHz Wireless Rack Mount Master Clock

## Specifications

Time Base Backup Battery Life:	20 years
Synchronized Accuracy:	10 milliseconds
Stand Alone Accuracy:	2 PPB (1 second in 20 years)
Average Current:	100 mA @ 110 VAC 50 mA @ 220 VAC
Operating Frequency:	2.4 GHz Direct Sequence, Spread Spectrum
Radio Band:	Industrial, Scientific and Medical (ISM)
Data Encryption:	AES 128 Bit
Display:	12 and/or 24 hour format
Compliance:	FCC Part 15.247
Case Dimensions:	19"W x 3.5"H x 5.5D" (482mm x 89mm x 140mm) 2 - Rack Units High
Weight:	3.0 lbs. (3.18 kg)
Case:	Plastic
Color:	Black

## Ordering Information

### Master Clocks & Accessories

RC100R - OCXO Rack Mount Master Transmitter

- 2.4 GHz Transceiver
- RC 150 Mini Master
- AC/DC Power Adapter
- 10 ft. Cat 5 Cable

RC161 - GPS to Wireless (GPS antenna and wireless transmitter)

### Options

DOCXO - Double Oven Controlled Crystal Oscillator  
Accuracy of 0.2 PPB  
(0.006 Seconds per Year)

RBXO - Rubidium Atomic Clock Oscillator,  
Accuracy of 0.05 PPB  
(0.0016 Seconds per Year)

