

# **ECM-P3-CR500**

Description	ECM-P3-CR500, 3 GHz point-to-point unit, net throughput up to 500 Mbps, 2x N-type (F) connectors for external antenna
Net throughput	up to 500 Mbps
Recommended distances	up to 100 km
Radio technology	MIMO 2x2, Cyclic single carrier
Modulation coding schemes	from QPSK 1/4 to QAM256 30/32
Transmit power	up to 27 dBm
Receiver sensitivity	down to -93 dBm
Frequency range	2990-4010 MHz
Channel width	10, 20, 40 MHz
Center frequency adjustment step	1Mhz
Duplex scheme	TDD, Hybrid-FDD
Wired Interfaces	2x GigabitEthernet, SFP
Consumption	up to 30 W
Power options	90-240 VAC @ 50/60 Hz, 4356 VDC (802.3at compliant)
Outdoor Unit (ODU)	256 x 240 x 86 mm, 2.1 kg





## ECM-P3-CR500

### **Features**

#### RADIO

- Best-in-breed spectral efficiency
  - up to 14 bps/Hz
  - real throughput in excess of 130 Mbps in just 10 MHz of spectrum
- High transmit power and perfect sensitivity even at the highest-order modulations
  - Reliable signal receiving in both LOS and NLOS conditions
- Superior interference and noise immunity
  - High-selectivity receiver with channel filtering cuts off inband interference
- TDD synchronization using a built-in GNSS receiver

#### NETWORKING

- Built-in full-fledged L2 switch supporting VLAN and STP
- Transparent L2 transport for Ethernet traffic of any type
- Timing transport using precision time protocol (IEEE 1588v2) support

#### **MANAGEMENT FEATURES**

- Web-based graphical user interface
- Command line interface
- SNMP v1/2c/3 support (MIB-II and proprietary MIBs)
- Centralized monitoring

### QUALITY-OF-SERVICE

QoS support

- 4 priority queues: strict and weighted prioritisation
- Classification based on IEEE 802.1p
- Egress rate limiting on each network port

#### INSTALLATION AND DIAGNOSTIC TOOLS

#### LED indication

- power status
- wired and wireless link status
- received signal strength indication
- TDD sync status

#### Web GUI tools

- antenna alignment tool
- spectrum analyzer

#### **ENVIRONMENTAL**

- Outdoor unit:
  - Operating temperature range -40..+60° C
  - IP66/IP67 compliant water and dust protection
- ✓ Indoor unit:
  - 100-240 VAC @ 50/60 Hz or ±43..±56 VDC, 802.3at compliant
  - Power consumption up to 60 W

#### STANDARD COMPLIANCE

#### ✓ Safety:

- EN 60950-1:2006, UL 60950-1 2nd ed.

#### Radio (pending):

- EN 302 326-2
- ✓ EMC:
  - ETSI EN 301 489-1, ETSI EN 301 489-17, FCC Part 15 Class B

#### ✓ RoHS:

- Directive 2011/65/EU