

ECM-P5G-A28R150

Description	ECM-P5G-A28R150, 5 GHz point-to-point unit, net throughput up to 1000 Mbps, integrated dual-pol antenna, 28 dBi, 5x5 deg
Net throughput	up to 1000 Mbps
Recommended distances	up to 50 km
Radio technology	MIMO 2x2, Cyclic single carrier
Modulation coding schemes	from QPSK 1/4 to QAM256 30/32
Transmit power	up to 22 dBm
Receiver sensitivity	down to -93 dBm
Frequency range	4900-6000 MHz
Channel width	2x10, 2x20, 2x40 MHz
Center frequency adjustment step	1Mhz
Duplex scheme	TDD, Hybrid-FDD
Antenna	28 dBi
Wired Interfaces	2x GigabitEthernet, SFP
Consumption	up to 55 W
Power options	90-240 VAC @ 50/60 Hz, 4356 VDC
Outdoor Unit (ODU)	600 x 600 x 74 mm, 6.3 kg





ECM-P5G-A28R150

Features

RADIO

- ✓ Best-in-breed spectral efficiency
 - up to 14 bps/Hz
- ✓ Flexible frequency planning
 - utilizing two non-adjacent frequency chan-
 - support of TDD and Hybrid-FDD
- ✓ Reliable signal receiving in both LOS and NLOS conditions
- ✓ 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
 - transparent clock mode supported

MANAGEMENT FEATURES

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

QUALITY-OF-SERVICE

- QoS support
 - 4 priority queues: strict and weighted prioriti
 ✓ RoHS:
 - 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:

- 90-240 VAC @ 50/60 Hz or ±43..±56 VDC
- Power consumption up to 60 W

STANDARD COMPLIANCE

✓ Safety:

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

- EN 301 893 v.1.8.1, EN 302 502, v.1.2.1, FCC part 15.247

✓ EMC:

- ETSI EN 301 489-1, ETSI EN 301 489-17, FCC Part 15 Class B

- Directive 2011/65/EU