PRODUCT DATASHEET



EC SYSTEM ECM-S3T-CR200

 $3.4 - 3.7 \, \text{GHz}$

Description	EC SYSTEM High-capacity External Antenna Subscriber Terminal
Performance	 8 Mbps (up to 8 Mbps net) 20 Mbps (up to 8 Mbps net) 50 Mbps (up to 50 Mbps net) 300 Mbps (up to 180 Mbps net) License upgradeable
Distances	Middle-to-long range (25+ km)
Radio	 Transmit power: up to 23 dBm Receiver sensitivity: -6797 dBm Frequency bands: 3.4-3.7 GHz Channel bandwidth: 3.5/5/7/10/14/15/20/28/30/40 MH Center frequency adjustment step: 125 kHz Channel duplex: TDD 2 x N-type (Female) connectors
Wired Interfaces	• 2x Fast Ethernet (10/100 Base-T) PoE output at the second Ethernet port RJ-45 connector
Power Consumption	Consumption: • Up to 7 Watts Power options: • 110-240 VAC @ 50/60 Hz • +956 VDC
Form Factor and Dimensions	Outdoor Unit (ODU):



240 x 240 x 51 mm, 1.6 kg

• Indoor Unit (IDU-CPE): 85 x 76 x 36 mm, 0.15 kg

Part Number Options	ECM-S3T-CR200	Option	•	Option	Capacity
		200	Power 2x200	L8M L20M L50M 300M	8 Mbps 20 Mbps 50 Mbps 300 Mbps

Part Number Example ECM-S3T-CR200-300M



Features

RADIO

· Voice/RTP Aware Superpacketing

- to minimize jitter and latency for multimedia applications
- intelligent search for a cleanest channel and interference avoidance radar detection (depending on regulatory
- continuous background spectrum monitoring (for Instant DFS enabled units
- seamless channel change in case of congestion or radar detection (for Instant DFS enabled units only)
- Automatic Bitrate Control
 to ensure a 100% stable link irrelevant of changes in external conditions
- Automatic Transmit Power Control
 - to track and keep optimal input signal level to maximize performance for each link and reduce overall interference within a given transmit power and EIRP limitations
- Automatic Distance Learning
- to optimize performance for any link distances from dozens of meters to 100 km and above
- Channel Time Adjustment
- to improve performance on heavily loaded links
- Spectrum Analyzer mode
- interference detection non-invasive spectrum analysis (for Instant DFS enabled units only)
- · Channel testing tools
- channel performance measurement
- advanced diagnostics

MANAGEMENT FEATURES

- Web-interface
- basic settings
- channel diagnostics: spectrum analysis, antenna alignment,
- channel throughput measurement
- unit and RF links monitoring
- maintenance: firmware upgrade, license and configuration import/export
- tech support diagnostic reports generation
- command-line access Command-line interface for in-depth configuration and diagnostics accessible via:
- secure shell (SSH)
- telnet
- serial port
- remote shell
- SNMPv1 / SNMPv3 support (MIB II, private MIB)
- Configurable SNMP Traps

NETWORKING

- · Ethernet-over-IP tunneling
- ARP protocol support
- MAC/IP filtering
- Full-fledged 2nd layer switch:
- -Transparent transport for any type of Ethernet traffic including MPLS, stacked VLANs, etc.
- Multiple switching groups
- Full VLAN support including Q-in-Q (IEEE 802.1g and 802.1ad)
- STP/rSTP support
- IGMP Snooping with Querrier mode
- Trunk groups support
- · RIPv2 / OSPFv2 /static routing
- Tunneling (Ethernet-over-IP, IP-over-IP)
- L2/L3 Firewall • NAT(multipool, H.323-aware)
- · DHCP client/server/relay

OUALITY-OF-SERVICE

With many OoS permutations, OoS implementation works transparently in the network based on IEEE802.1p standard as well as ToS/DiffServ, guaranteeing optimal performance under any load conditions and lowest jitter/delays for priority traffic.

Quality-of-Service features:

- 16 priority queues
- IEEE 802.1p support
- IP TOS / DiffServ support
- Full voice support
- Traffic limiting (absolute, relative, mixed)
- Traffic redirection

MAC

Dynamic adaptive Polling

- Centralized marker grant mode
- Dynamically takes into account channel activity
- Permanent channel testing
- Pseudo-radio Interface
- unique Wireless feature to join Wireless networks via 3rd party equipment (Wired Ethernet segments, IP clouds)
- · Automatic over-the-air firmware upgrade

STANDARD COMPLIANCE

- Radio
 - EN 301 893 v.1.5.1
- EN 302 502 v.1.2.1
- FCC part 15.247
- EMC
- EN 301 489-1
- EN 301 489-17
- FCC Part 15 Class B
- Safety
- EN 60 950-1:2006 · RoHS - Directive 2002/95/EC

SECURITY FEATURES

- · Storm / flood protection
- Password protection
- Protocol messages encryption Secure command-line access via SSH protocol

ENVIRONMENTAL

Outdoor Units:

-40..+60C, 100% humidity, condensing

• Indoor Unit:

0..+40C, 95% humidity, non-condensing

The content herein is subject to change without further notice