PRODUCT DATASHEET



EC SYSTEM ECM-H6B-CR200

6.0 - 6.4 GHz

Part Number

Description	EC SYSTEM Connectorised External Antenna High-capacity Base Station
Performance	up to 240 Mbps net throughput
Distances	20+ km
Radio	 Transmit power: up to 23 dBm Receiver sensitivity: -67101 dBm Frequency bands: 6.0-6.4 GHz Channel bandwidth: 5/10/20/40 MHz 2 x N-type (Female) connectors Instant DFS support (optional)
Wired Interfaces	 Gigabit Ethernet port (10/100/1000 Base-T) RJ-45 connector Serial port (RS-232)
Power Consumption	Up to 12 Watts • 110-240 VAC @ 50/60 Hz • 48 VDC
Form Factor and Dimensions	• Outdoor Unit (ODU): 240 x 240 x 51 mm, 2.3 kg • Indoor Unit (IDU-BS): 124 x 72 x 38 mm, 0.3 kg

Options

Capacity

Options	Output Power 2x200	300M	240 Mbps	
Part Number	FCM-H6B-CR200-30	0M		

ECM-H6B-CR200



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 domain)
- 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
- 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 802.1q 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)
- NAT(multipool, H.323-aware)
- · DHCP client/server/relay
- · L2/L3 Firewall

OUALITY-OF-SERVICE

With many QoS permutations, QoS 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

ENVIRONMENTAL

- · Outdoor Units:
 - -40..+60C, 100% humidity, condensing
- · Indoor Unit:

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