# **PRODUCT DATASHEET**



<sup>6.0 - 6.4</sup> GHz

Description	<b>EC SYSTEM</b> Profi high-capacity Integrated 24 dBi Dual-polarization Antenna Point-to-Point backhaul
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Performance	Up to 480 Mbps
Distances	30+ km
Radio	<ul> <li>Radio technology: MIMO 2x2 (Cyclic single carrier)</li> <li>Modulation types: from QPSK to QAM256, as well as QAM1024</li> <li>Transmit power: up to 27 dBm (average, per Tx chain) @ QPSK to QAM256. Up to 24 dBm @ QAM1024</li> <li>Receiver sensitivity: -94 dBm @ 10 MHz, QPSK</li> <li>Frequency bands: 6.0-6.4 GHz</li> <li>Channel bandwidth: 10, 20, 40 MHz</li> </ul>
Wired Interfaces	<ul><li> 2x 10/100/1000 Base-T copper ports, RJ-45</li><li>SFP port</li></ul>
Power Consumption	Consumption: • up to 30 Watts

tion	<ul> <li>up to 30 Watts</li> </ul>	
	Develop and a set	

- Power options:
- 90-240 VAC~ @ 50/60 Hz
- 43..56 VDC

Form Factor and Dimensions



305 x 305 x 66 mm, 2.2 kg

Part Number ECM-P6-A24R500-500M Options



QUALITY-OF-SERVICE

Quality-of-Service features:

• IP TOS / DiffServ support

(absolute, relative, mixed)

• 16 priority queues

• Full voice support

Traffic redirection

Traffic limiting

• IEEE 802.1p support

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.

#### Features

#### RADIO

- Voice/RTP Aware Superpacketing to minimize jitter and latency for multimedia applications
- DFS - intelligent search for a cleanest channel and interference avoidance - radar detection (depending on regulatory
- domain)
- continuous background spectrum monitoring (for Instant DFS enabled units only) - 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

#### 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

## 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 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)
- L2/L3 Firewall
  - NAT(multipool, H.323-aware)
  - DHCP client/server/relay

SECURITY FEATURES

Protocol messages encryption

Secure command-line access via SSH

Storm / flood protection

Password protection

protocol

#### **ENVIRONMENTAL**

- Outdoor Units:
- 40..+60C, 100% humidity, condensing Indoor Unit:
- 0..+40C, 95% humidity, non-condensing

- STANDARD COMPLIANCE
- Radio
- EN 302 502 v.1.2.1
- 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

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### - EN 301 893 v.1.5.1 - FCC part 15.247