## Description

EC SYSTEM Profi high-capacity Integrated 27 dBi Dual-polarization Antenna Point-to-Point backhaul

## Performance

| Distances | Up to 480 Mbps |

## Radio

- Radio technology: MIMO 2x2 (Cyclic single carrier)
- Modulation types: from QPSK to QAM256, as well as QAM1024
- Transmit power: up to 27 dBm (average, per Tx chain) @ QPSK to QAM256. Up to 24 dBm @ QAM1024
- Receiver sensitivity: -94 dBm @ 10 MHz, QPSK
- Frequency bands: 6.0 - 6.4 GHz
- Channel bandwidth: 10, 20, 40 MHz

## Wired Interfaces

- 2x 10/100/1000 Base-T copper ports, RJ-45
- SFP port

## Power Consumption

- Consumption: up to 30 Watts
- Power options:
  - 90-240 VAC~ @ 50/60 Hz
  - 43..56 VDC

## Form Factor and Dimensions

- Part Number Options: ECM-P6-A27R500-500M
- 305 x 305 x 66 mm, 2.2 kg
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 congion 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 180 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)
  - telenet
  - 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/VSTP support
  - IGMP Snooping with Querier mode
  - Trunk groups support
- IPv6 / OSPFv2 / IS-IS routing
- Tunneling
  - Ethernet-over-IP, IP-over-IP
- L2/L3 Firewall
- NAT/multipool, (N,323-aware)
- DHCP client/server/relay

QUALITY-OF-SERVICE
With many QoS permutations, QoS implementation works transparently in the network based on IEEE802.1p standard as well as ToS/CoS/Serv, 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 lawsuits)
- Automatic over-the-air firmware upgrade

STANDARD COMPLIANCE
- Radio
  - EN 301 893 v1.5.1
  - EN 302 042 v1.2.1
  - 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...+60°C, 100% humidity, condensing
- Indoor Units:
  - 0...+40°C, 95% humidity, non-condensing

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