

# PRODUCT DATASHEET

## EC SYSTEM ECM-S6-A24R200 6050-6425 Mhz



<b>Description</b>	ECM-S6-A24R200, 6 GHz subscriber terminal, net throughput up to 180 Mbps, integrated dual-pol antenna 24 dBi, 9x9 deg				
<b>Net throughput</b>	up to 180 Mbps				
<b>Recommended distances</b>	up to 12 km				
<b>Radio technology</b>	MIMO 2x2 (OFDM 64/128)				
<b>Modulation coding schemes</b>	from BPSK 1/2 to QAM64 5/6				
<b>Transmit Power</b>	up to 23 dBm				
<b>Receiver sensitivity</b>	down to -95 dbm				
<b>Frequency range</b>	6050-6425 MHz				
<b>Channel width</b>	5, 10, 20, 40 MHz				
<b>Center frequency adjustment step</b>	125 kHz				
<b>Duplex scheme</b>	TDD				
<b>Antenna</b>	24 dBi				
<b>Wired Interfaces</b>	2x FastEthernet (PoE out)				
<b>Consumption</b>	up to 7 W				
<b>Power options</b>	110-240 VAC @ 50/60 Hz, +9..56 VDC				
<b>Outdoor Unit (ODU)</b>	305 x 305 x 61 mm, 1.9 kg				
<b>Part Number Options</b>		<b>Antenna</b>	<b>Output Power</b>	<b>Option</b>	<b>Capacity</b>
	ECM-S6-A24R200			L8M	8 Mbps
		2x24	2x200	L20M	20 Mbps
				L50M	50 Mbps
			L300M	300 Mbps	



## Features

### RADIO

- ✓ Voice/RTP Aware Superpacketing
- ✓ DFS
- ✓ Automatic Bitrate Control
- ✓ Automatic Transmit Power Control
- ✓ Automatic Distance Learning
- ✓ Channel Time Adjustment
- ✓ Spectrum Analyzer Mode
- ✓ Channel testing tools

### STANDARD COMPLIANCE

- ✓ **Radio**
  - ETSI EN 301 893 v.1.7.1
  - ETSI 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
- ✓ **Safety**
  - ETSI EN 60 950-1:2006
- ✓ **RoHS**
  - Directive 2011/65/EU

### ENVIRONMENTAL

- ✓ **Outdoor units:**
  - 40..+60°
  - 100% humidity, condensing
- ✓ **Indoor units:**
  - 0..+40°
  - 95% humidity, non-condensing

### MAC

- ✓ **Dynamic adaptive polling:**
  - Centralized marker grant mode
  - Dynamically takes into account channel activity
  - Permanent channel testing
- ✓ Pseudo-radio interface
- ✓ Automatic over-the-air firmware upgrade

### NETWORKING

- ✓ Ethernet-over IP tunneling
- ✓ ARP protocol support
- ✓ MAC/IP filtering
- ✓ RIPv2 / OSPFv2 / static routing
- ✓ L2/L3 Firewall
- ✓ NAT (multipool, H.323-aware)
- ✓ DHCP client/server/relay

### QUALITY-OF-SERVICE

- ✓ 17 priority queues
- ✓ IEE 802.1p support
- ✓ IP TOS / DiffServ support
- ✓ Full voice support
- ✓ Traffic Limiting (absolute, relative, mixed)
- ✓ Traffic redirection

### SECURITY FEATURES

- ✓ Storm / flood protection
- ✓ Password protection
- ✓ Secure command-line access via SSH protocol