**PRODUCT DATASHEET**

**EC SYSTEM ECM-S6-A27R200**

**6050-6425 Mhz**

<table>
<thead>
<tr>
<th>Description</th>
<th>ECM-S6-A27R200, 6 GHz subscriber terminal, net throughput up to 180 Mbps, integrated dual-pol antenna 27 dBi, 5x5 deg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net throughput</td>
<td>up to 180 Mbps</td>
</tr>
<tr>
<td>Recommended distances</td>
<td>up to 25 km</td>
</tr>
<tr>
<td>Radio technology</td>
<td>MIMO 2x2 (OFDM 64/128)</td>
</tr>
<tr>
<td>Modulation coding schemes</td>
<td>from BPSK 1/2 to QAM64 5/6</td>
</tr>
<tr>
<td>Transmit Power</td>
<td>up to 23 dBm</td>
</tr>
<tr>
<td>Receiver sensitivity</td>
<td>down to -95 dbm</td>
</tr>
<tr>
<td>Frequency range</td>
<td>6050-6425 MHz</td>
</tr>
<tr>
<td>Channel width</td>
<td>5, 10, 20, 40 MHz</td>
</tr>
<tr>
<td>Center frequency adjustment step</td>
<td>125 kHz</td>
</tr>
<tr>
<td>Duplex scheme</td>
<td>TDD</td>
</tr>
<tr>
<td>Antenna</td>
<td>27 dBi</td>
</tr>
<tr>
<td>Wired Interfaces</td>
<td>2x FastEthernet (PoE out)</td>
</tr>
<tr>
<td>Consumption</td>
<td>up to 7 W</td>
</tr>
<tr>
<td>Power options</td>
<td>110-240 VAC @ 50/60 Hz, +9..56 VDC</td>
</tr>
<tr>
<td>Outdoor Unit (ODU)</td>
<td>600 x 600 x 68 mm, 5.8 kg</td>
</tr>
<tr>
<td>Part Number Options</td>
<td>ECM-S6-A24R200</td>
</tr>
<tr>
<td></td>
<td>2x24</td>
</tr>
</tbody>
</table>
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