<table>
<thead>
<tr>
<th>Description</th>
<th>ECM-S6-A24R200, 6 GHz subscriber terminal, net throughput up to 180 Mbps, integrated dual-pol antenna 24 dBi, 9x9 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 12 km</td>
</tr>
<tr>
<td>Radio technology</td>
<td>MIMO 2x2 (OFDM 64/128)</td>
</tr>
<tr>
<td>Modulation 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>24 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>305 x 305 x 61 mm, 1.9 kg</td>
</tr>
<tr>
<td>Part Number Options</td>
<td>Antenna Output Power Option Capacity</td>
</tr>
<tr>
<td>ECM-S6-A24R200</td>
<td>2x24 2x200 8 Mbps 20 Mbps 50 Mbps 300 Mbps</td>
</tr>
<tr>
<td>L8M</td>
<td>8 Mbps</td>
</tr>
<tr>
<td>L20M</td>
<td>20 Mbps</td>
</tr>
<tr>
<td>L50M</td>
<td>50 Mbps</td>
</tr>
<tr>
<td>L300M</td>
<td>300 Mbps</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