<table>
<thead>
<tr>
<th>Description</th>
<th>ECM-P5G-CR150, 5 GHz point-to-point unit, net throughput up to 1000 Mbps, 2x N-type (F) connectors for external antenna</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net throughput</td>
<td>up to 1000 Mbps</td>
</tr>
<tr>
<td>Recommended distances</td>
<td>60+ km</td>
</tr>
<tr>
<td>Radio technology</td>
<td>MIMO 2x2, Cyclic single carrier</td>
</tr>
<tr>
<td>Modulation coding schemes</td>
<td>from QPSK 1/4 to QAM256 30/32</td>
</tr>
<tr>
<td>Transmit power</td>
<td>up to 22 dBm</td>
</tr>
<tr>
<td>Receiver sensitivity</td>
<td>down to -93 dBm</td>
</tr>
<tr>
<td>Frequency range</td>
<td>4900-6000 MHz</td>
</tr>
<tr>
<td>Channel width</td>
<td>2x10, 2x20, 2x40 MHz</td>
</tr>
<tr>
<td>Center frequency adjustment step</td>
<td>1 Mhz</td>
</tr>
<tr>
<td>Duplex scheme</td>
<td>TDD, Hybrid-FDD</td>
</tr>
<tr>
<td>Wired Interfaces</td>
<td>2x GigabitEthernet, SFP</td>
</tr>
<tr>
<td>Consumption</td>
<td>up to 55 W</td>
</tr>
<tr>
<td>Power options</td>
<td>90-240 VAC @ 50/60 Hz, 43..56 VDC</td>
</tr>
<tr>
<td>Outdoor Unit (ODU)</td>
<td>256 x 240 x 86 mm, 2.1 kg</td>
</tr>
</tbody>
</table>
Features

RADIO

✓ Best-in-breed spectral efficiency
  – up to 14 bps/Hz
✓ Flexible frequency planning
  – utilizing two non-adjacent frequency channels
  – support of TDD and Hybrid-FDD
✓ Reliable signal receiving in both LOS and NLOS conditions
✓ TDD synchronization using a built-in GNSS receiver

NETWORKING

✓ Built-in full-fledged L2 switch supporting VLAN and STP
✓ Transparent L2 transport for Ethernet traffic of any type
✓ Timing transport using precision time protocol (IEEE 1588v2) support
  – transparent clock mode supported

MANAGEMENT FEATURES

✓ Web-based graphical user interface
✓ Command line interface
✓ SNMP v1/2c/3 support (MIB-II and proprietary MIBs)
✓ Centralized monitoring

QUALITY-OF-SERVICE

✓ QoS support
  – 4 priority queues: strict and weighted prioritisation
  – Classification based on IEEE 802.1p
  – Egress rate limiting on each network port

INSTALLATION AND DIAGNOSTIC TOOLS

✓ LED indication
  – power status
  – wired and wireless link status
  – received signal strength indication
  – TDD sync status
✓ Web GUI tools
  – antenna alignment tool
  – spectrum analyzer

ENVIRONMENTAL

✓ Outdoor unit:
  – Operating temperature range –40..+60º C
  – IP66/IP67 compliant water and dust protection
✓ Indoor unit:
  – 90-240 VAC @ 50/60 Hz or ±43..±56 VDC
  – Power consumption up to 60 W

STANDARD COMPLIANCE

✓ Safety:
  – EN 60950-1:2006, UL 60950-1 2nd ed.
✓ Radio (pending):
  – EN 301 893 v.1.8.1, 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
✓ RoHS:
  – Directive 2011/65/EU