



Technical Specifications

WTM 4200

ETSI

General Specifications

| General | | |
|--|--------------------------|--|
| Frequency Bands | | 6 - 42 GHz |
| Link Configurations | | 1+0, 2+0 ACCP, ACAP, CCDP (with XPIC) |
| Modulation and Coding | <i>Fixed or Adaptive</i> | QPSK to 4096 QAM / Hitless AM |
| Channel Sizes | | 7, 13.75, 14, 27.5, 28, 40, 55, 56, 80, 110, 112 MHz |
| Capacity | <i>Airlink Capacity</i> | up to 2.1 Gbit/s |
| | <i>MLHC Capacity</i> | up to 2.5 Gbit/s |
| Power Supply | | |
| | <i>Direct +24Vdc</i> | 20 to 28.3Vdc |
| | <i>48V PoE</i> | 44 to 58Vdc ^[7] |
| | <i>Direct -48Vdc</i> | -40 to -57Vdc |
| Consumption (Typical) | | 100 Watts (Typical) |
| Consumption (Power-save mode) | | min 28 Watts |
| Physical | | |
| Size (h-w-d), including antenna interfaces | | 295mm x 270mm x 95mm (11.5in x 10.5in x 4in) |
| Weight, including antenna interfaces | | 6.5 kg (14lbs) |
| Operating Temperature | <i>Guaranteed</i> | -33° to +55°C |
| | <i>Extended</i> | -45° to +65°C ^[1] |
| Humidity | <i>Guaranteed</i> | 100% |
| Altitude | <i>Guaranteed</i> | 4500m |
| Standards Compliance | | |
| EMC | | EN 301 489-1, EN 301 489-4 |
| Operation | | EN 300 019-2-4, Class 4.1 |
| Safety | | IEC/EN 60950-1, IEC/EN 60950-22 |
| RF Performance | | EN 302 217-2 |
| Maximum Permissible Exposure | | EN 50385 |
| Water Ingress | | IEC 60529, IPX6 |
| Lightning Protection | | Internal, compliant to IEC-61000-4-5, Class 5 |

Transmitter / Receiver

| Transmitter | | |
|---|---------------------------|---|
| Transmit Power Tolerance | | ± 2.0 dB (6-28 GHz) ± 2.5 dB (32-42 GHz) |
| Transmitter Source | | Synthesized |
| Frequency Stability | | ± 5 ppm |
| Manual Transmitter Power Control Range | | Configurable in 0.1 dB steps from min to max power levels |
| Automatic Transmitter Power Control Range | | Configurable over the full available manual attenuation range |
| | <i>Resolution / Speed</i> | 0.1 dB steps / 50dB/s |
| Synthesizer Resolution | | 250 KHz |
| Transmitter Mute | | > 50 dB |

*[] See notes in last page

Transmitter / Receiver

Receiver

| | | |
|--------------------------------------|------------------------------|---------------------|
| Receiver Source | Synthesized | |
| Frequency Stability | ± 5 ppm | |
| Receiver Overload | <i>BER = 1E-6</i> | -21 dBm |
| Residual (Background) Bit Error Rate | Better than 1E-13 | |
| RSSI Accuracy [4] | -30 to -70 dBm, -33 to +55°C | Better than ± 2.5dB |
| | -20 to -30 dBm, -33 to +55°C | Better than ± 3.5dB |

Networking

CE/L2

| | | |
|--------------------------|---|--|
| Switch capability | 50 Gbps non-blocking | |
| Quality of Service (QoS) | 8 COS, Scheduling, Policing, Storm Control, Shaping | |
| QoS Mapping | PCP (802.1p), DSCP, MPLS EXP, H-QoS | |
| VLANs | IEEE 802.1Q and IEEE 802.1ad (Q-in-Q) | |
| Spanning Tree | Rapid and multiple protocols (RSTP, MSTP) | |
| Ethernet OAM | IEEE 802.3ah, IEEE 802.1ag, ITU-T Y.1731 | |
| Congestion Avoidance | WRED, per queue Packet Buffer – 180 Mbyte | |
| Jumbo frames | Up to 9600 bytes | |

Synchronisation

| | | |
|-------------------------|------------------------------|--|
| Synchronous Ethernet | ITU-T G.8262 and G.8264 ESMC | |
| Precision Time Protocol | IEEE 1588v2 TC or BC | |

General Specifications

Interfaces

| | | |
|---------------------|--|--|
| Traffic | <i>2x fixed RJ45</i> <i>2x optional SFP</i> | 10/100/1000BT Electrical 1, 2.5 & 10Gbps speeds, both Optical (Single and Multi-mode) and Electrical |
| Power | <i>Direct</i> <i>Power over Ethernet</i> | 24Vdc or 48 Vdc Via 10/100/1000BT Electrical port, 13-42 GHz |
| USB support | <i>Management</i> | Local setup, sw/fw upgrade, config backup via Wifi |
| Wireless connection | | via Wifi |
| RSSI | | Dual voltmeter pins |

Management

| | | |
|--------------------|----------------|--|
| Local Management | <i>via USB</i> | Configuration save & load Wireless dongle to support Wifi Aviat OS software upgrade |
| Event Capture | | Event and Alarm capture, time stamp and logging |
| Statistics | | RMON 1 Ethernet and radio performance statistics |
| Network Management | | SNMPv2c ProVision or MIB interface support IPv4 addressing with an In-Band Management VLAN. Telnet or SSH access Aviat Cloud – Manage Advanced |
| Clock | | Simple Network Time Protocol (SNTP V4), embedded real time clock |

*[] See notes in last page

Capacity Profiles^[9]

| | Modulation | Air Link Capacity | RFC 2544 Throughput ^[2] | | Throughput with MLHC ^[3] | |
|-------------------------------|------------|-------------------|------------------------------------|------------|-------------------------------------|------------|
| | | | 64 bytes | 1518 bytes | 64 bytes | 1518 bytes |
| 7 MHz Channel | | | | | | |
| ACM/Fixed Max System Gain | QPSK | 18 Mbps | 24 Mbps | 18 Mbps | 50 Mbps | 20 Mbps |
| ACM/Fixed Max System Gain | 16QAM | 36 Mbps | 46 Mbps | 36 Mbps | 100 Mbps | 40 Mbps |
| ACM/Fixed Max System Gain | 32QAM | 44 Mbps | 58 Mbps | 44 Mbps | 130 Mbps | 50 Mbps |
| ACM/Fixed Max System Gain | 64QAM | 58 Mbps | 76 Mbps | 60 Mbps | 160 Mbps | 70 Mbps |
| ACM/Fixed Max System Gain | 128QAM | 76 Mbps | 100 Mbps | 78 Mbps | 190 Mbps | 80 Mbps |
| ACM/Fixed Max System Gain | 256QAM | 88 Mbps | 116 Mbps | 90 Mbps | 210 Mbps | 90 Mbps |
| ACM/Fixed Max System Gain | 512QAM | 100 Mbps | 130 Mbps | 102 Mbps | 240 Mbps | 100 Mbps |
| ACM/Fixed Max System Gain | 1024QAM | 110 Mbps | 144 Mbps | 110 Mbps | 260 Mbps | 110 Mbps |
| ACM/Fixed Max System Gain | 2048QAM | 118 Mbps | 156 Mbps | 120 Mbps | 290 Mbps | 120 Mbps |
| 13.75 / 14 MHz Channel | | | | | | |
| ACM/Fixed Max System Gain | QPSK | 36 Mbps | 48 Mbps | 38 Mbps | 100 Mbps | 40 Mbps |
| ACM/Fixed Max System Gain | 16QAM | 72 Mbps | 94 Mbps | 72 Mbps | 210 Mbps | 90 Mbps |
| ACM/Fixed Max System Gain | 32QAM | 90 Mbps | 116 Mbps | 90 Mbps | 250 Mbps | 110 Mbps |
| ACM/Fixed Max System Gain | 64QAM | 120 Mbps | 156 Mbps | 120 Mbps | 310 Mbps | 130 Mbps |
| ACM/Fixed Max System Gain | 128QAM | 154 Mbps | 202 Mbps | 156 Mbps | 370 Mbps | 160 Mbps |
| ACM/Fixed Max System Gain | 256QAM | 178 Mbps | 234 Mbps | 180 Mbps | 420 Mbps | 180 Mbps |
| ACM/Fixed Max System Gain | 512QAM | 202 Mbps | 264 Mbps | 204 Mbps | 480 Mbps | 200 Mbps |
| ACM/Fixed Max System Gain | 1024QAM | 226 Mbps | 296 Mbps | 228 Mbps | 530 Mbps | 230 Mbps |
| ACM/Fixed Max System Gain | 2048QAM | 242 Mbps | 316 Mbps | 244 Mbps | 570 Mbps | 250 Mbps |
| ACM/Fixed Max System Gain | 4096QAM | 258 Mbps | 338 Mbps | 260 Mbps | 620 Mbps | 270 Mbps |
| 27.5 / 28 MHz Channel | | | | | | |
| ACM/Fixed Max System Gain | QPSK | 76 Mbps | 100 Mbps | 78 Mbps | 210 Mbps | 90 Mbps |
| ACM/Fixed Max System Gain | 16QAM | 146 Mbps | 192 Mbps | 148 Mbps | 430 Mbps | 180 Mbps |
| ACM/Fixed Max System Gain | 32QAM | 182 Mbps | 240 Mbps | 184 Mbps | 540 Mbps | 230 Mbps |
| ACM/Fixed Max System Gain | 64QAM | 240 Mbps | 316 Mbps | 244 Mbps | 640 Mbps | 280 Mbps |
| ACM/Fixed Max System Gain | 128QAM | 314 Mbps | 412 Mbps | 318 Mbps | 760 Mbps | 330 Mbps |
| ACM/Fixed Max System Gain | 256QAM | 360 Mbps | 474 Mbps | 366 Mbps | 870 Mbps | 370 Mbps |
| ACM/Fixed Max System Gain | 512QAM | 410 Mbps | 538 Mbps | 416 Mbps | 970 Mbps | 420 Mbps |
| ACM/Fixed Max System Gain | 1024QAM | 450 Mbps | 590 Mbps | 456 Mbps | 1020 Mbps | 440 Mbps |
| ACM/Fixed Max System Gain | 2048QAM | 490 Mbps | 644 Mbps | 498 Mbps | 1170 Mbps | 510 Mbps |
| ACM/Fixed Max System Gain | 4096QAM | 520 Mbps | 682 Mbps | 528 Mbps | 1280 Mbps | 550 Mbps |
| 40 MHz Channel | | | | | | |
| ACM/Fixed Max System Gain | QPSK | 104 Mbps | 137 Mbps | 106 Mbps | 290 Mbps | 120 Mbps |
| ACM/Fixed Max System Gain | 16QAM | 201 Mbps | 264 Mbps | 204 Mbps | 580 Mbps | 250 Mbps |
| ACM/Fixed Max System Gain | 32QAM | 282 Mbps | 370 Mbps | 286 Mbps | 730 Mbps | 310 Mbps |
| ACM/Fixed Max System Gain | 64QAM | 341 Mbps | 447 Mbps | 345 Mbps | 880 Mbps | 380 Mbps |
| ACM/Fixed Max System Gain | 128QAM | 430 Mbps | 565 Mbps | 436 Mbps | 1040 Mbps | 450 Mbps |
| ACM/Fixed Max System Gain | 256QAM | 500 Mbps | 657 Mbps | 507 Mbps | 1200 Mbps | 510 Mbps |
| ACM/Fixed Max System Gain | 512QAM | 562 Mbps | 737 Mbps | 569 Mbps | 1340 Mbps | 580 Mbps |
| ACM/Fixed Max System Gain | 1024QAM | 615 Mbps | 807 Mbps | 623 Mbps | 1400 Mbps | 600 Mbps |
| ACM/Fixed Max System Gain | 2048QAM | 672 Mbps | 882 Mbps | 681 Mbps | 1610 Mbps | 690 Mbps |
| ACM/Fixed Max System Gain | 4096QAM | 713 Mbps | 935 Mbps | 722 Mbps | 1750 Mbps | 750 Mbps |

*[] See notes in last page

Capacity Profiles^[9]

| | Modulation | Air Link Capacity | RFC 2544 Throughput ^[2] | | Throughput with MLHC ^[3] | |
|------------------------------|------------|-------------------|------------------------------------|------------|-------------------------------------|------------|
| | | | 64 bytes | 1518 bytes | 64 bytes | 1518 bytes |
| 55 / 56 MHz Channel | | | | | | |
| ACM/Fixed Max System Gain | QPSK | 150 Mbps | 198 Mbps | 152 Mbps | 430 Mbps | 190 Mbps |
| ACM/Fixed Max System Gain | 16QAM | 300 Mbps | 394 Mbps | 304 Mbps | 870 Mbps | 370 Mbps |
| ACM/Fixed Max System Gain | 32QAM | 382 Mbps | 500 Mbps | 386 Mbps | 1090 Mbps | 470 Mbps |
| ACM/Fixed Max System Gain | 64QAM | 500 Mbps | 656 Mbps | 508 Mbps | 1310 Mbps | 560 Mbps |
| ACM/Fixed Max System Gain | 128QAM | 642 Mbps | 842 Mbps | 650 Mbps | 1550 Mbps | 670 Mbps |
| ACM/Fixed Max System Gain | 256QAM | 742 Mbps | 972 Mbps | 750 Mbps | 1790 Mbps | 770 Mbps |
| ACM/Fixed Max System Gain | 512QAM | 834 Mbps | 1094 Mbps | 844 Mbps | 2000 Mbps | 860 Mbps |
| ACM/Fixed Max System Gain | 1024QAM | 920 Mbps | 1208 Mbps | 932 Mbps | 2090 Mbps | 900 Mbps |
| ACM/Fixed Max System Gain | 2048QAM | 1000 Mbps | 1314 Mbps | 1014 Mbps | 2400 Mbps | 1030 Mbps |
| ACM/Fixed Max System Gain | 4096QAM | 1062 Mbps | 1394 Mbps | 1076 Mbps | 2500 Mbps | 1130 Mbps |
| 80 MHz Channel | | | | | | |
| ACM/Fixed Max System Gain | QPSK | 208 Mbps | 270 Mbps | 208 Mbps | 510 Mbps | 220 Mbps |
| ACM/Fixed Max System Gain | 16QAM | 484 Mbps | 630 Mbps | 486 Mbps | 1150 Mbps | 500 Mbps |
| ACM/Fixed Max System Gain | 32QAM | 558 Mbps | 732 Mbps | 566 Mbps | 1300 Mbps | 560 Mbps |
| ACM/Fixed Max System Gain | 64QAM | 706 Mbps | 920 Mbps | 710 Mbps | 1710 Mbps | 740 Mbps |
| ACM/Fixed Max System Gain | 128QAM | 848 Mbps | 1112 Mbps | 858 Mbps | 2020 Mbps | 870 Mbps |
| ACM/Fixed Max System Gain | 256QAM | 968 Mbps | 1260 Mbps | 974 Mbps | 2310 Mbps | 990 Mbps |
| ACM/Fixed Max System Gain | 512QAM | 1108 Mbps | 1444 Mbps | 1114 Mbps | 2500 Mbps | 1140 Mbps |
| ACM/Fixed Max System Gain | 1024QAM | 1250 Mbps | 1628 Mbps | 1256 Mbps | 2500 Mbps | 1240 Mbps |
| ACM/Fixed Max System Gain | 2048QAM | 1370 Mbps | 1784 Mbps | 1378 Mbps | 2500 Mbps | 1350 Mbps |
| ACM/Fixed Max System Gain | 4096QAM | 1462 Mbps | 1904 Mbps | 1470 Mbps | 2500 Mbps | 1470 Mbps |
| 110 / 112 MHz Channel | | | | | | |
| ACM/Fixed Max System Gain | QPSK | 302 Mbps | 396 Mbps | 306 Mbps | 870 Mbps | 370 Mbps |
| ACM/Fixed Max System Gain | 16QAM | 602 Mbps | 790 Mbps | 610 Mbps | 1730 Mbps | 750 Mbps |
| ACM/Fixed Max System Gain | 32QAM | 764 Mbps | 1002 Mbps | 774 Mbps | 2190 Mbps | 940 Mbps |
| ACM/Fixed Max System Gain | 64QAM | 1002 Mbps | 1314 Mbps | 1014 Mbps | 2500 Mbps | 1130 Mbps |
| ACM/Fixed Max System Gain | 128QAM | 1282 Mbps | 1684 Mbps | 1300 Mbps | 2500 Mbps | 1330 Mbps |
| ACM/Fixed Max System Gain | 256QAM | 1482 Mbps | 1946 Mbps | 1502 Mbps | 2500 Mbps | 1540 Mbps |
| ACM/Fixed Max System Gain | 512QAM | 1668 Mbps | 2190 Mbps | 1690 Mbps | 2500 Mbps | 1720 Mbps |
| ACM/Fixed Max System Gain | 1024QAM | 1842 Mbps | 2418 Mbps | 1866 Mbps | 2500 Mbps | 1800 Mbps |
| ACM/Fixed Max System Gain | 2048QAM | 2002 Mbps | 2500 Mbps | 2030 Mbps | 2500 Mbps | 2070 Mbps |
| ACM/Fixed Max System Gain | 4096QAM | 2124 Mbps | 2500 Mbps | 2152 Mbps | 2500 Mbps | 2260 Mbps |

*[] See notes in last page

Transmitter Specifications

System

| | L6/U6 GHz | 7 GHz | 8 GHz | 10 GHz |
|-----------------------------|---------------------------|---|---|-------------|
| Frequency Range (GHz) | 5.927-6.420 6.425-7.11 | 7.125-7.7 | 7.7-8.5 | 10.15-10.68 |
| TR-Spacings Supported (MHz) | 240, 252.04, 266 | 150, 154, 161, 168, 175, 196, 245,300 | 119, 126, 151.614, 195, 208, 266, 300, 310, 311.32, 305.56, 360 | 300 |

Antenna Interface

| | | | | |
|--------------------|-------|-------|-------|--------|
| Waveguide Type | WR137 | WR112 | WR112 | WR90 |
| Flange Type | UDR70 | UDR80 | UDR80 | UDR100 |
| Mating Flange Type | PDR70 | PDR84 | PDR84 | PDR100 |

Transmitter Power Output Specifications^[5], in dBm (OMT option, Nominal)

| Modulation | L6/U6 GHz | 7 GHz | 8 GHz | 10 GHz |
|--------------------------------|-----------|-------|-------|--------|
| QPSK | 30.5 | 30.5 | 29.5 | 28.5 |
| 16QAM | 29.5 | 29.0 | 28.5 | 27.5 |
| 32QAM | 29.5 | 29.0 | 28.5 | 27.5 |
| 64QAM | 29.0 | 28.5 | 28.0 | 27.0 |
| 128QAM | 29.0 | 28.5 | 28.0 | 27.0 |
| 256QAM | 29.0 | 28.5 | 28.0 | 27.0 |
| 512QAM | 28.5 | 28.0 | 27.5 | 26.5 |
| 1024QAM | 27.5 | 27.0 | 26.5 | 25.5 |
| 2048QAM | 26.5 | 26.0 | 25.5 | 24.5 |
| 4096QAM | 25.5 | 25.0 | 24.5 | 23.5 |
| Min Power for channels ≤ 56MHz | 10.5 | 10.5 | 9.5 | 8.5 |
| Min Power for channels ≥ 80MHz | 14.5 | | | |

Receiver Specifications

Receiver Threshold BER=1E-6^[6], in dBm (OMT option, Typical)

| Air Link ^[9] Capacity | Modulation | L6/U6 GHz | 7 GHz | 8 GHz | 10 GHz | |
|----------------------------------|------------|-----------|-------|-------|--------|-------|
| 7 MHz Channel | | | | | | |
| ACM / Fixed | 18 Mbps | QPSK | -95.0 | -94.5 | -95.0 | -94.0 |
| ACM / Fixed | 36 Mbps | 16QAM | -89.5 | -89.0 | -89.5 | -88.0 |
| ACM / Fixed | 48 Mbps | 32QAM | -85.0 | -84.5 | -85.0 | -83.5 |
| ACM / Fixed | 60 Mbps | 64QAM | -82.5 | -82.0 | -82.5 | -81.0 |
| ACM / Fixed | 76 Mbps | 128QAM | -78.5 | -78.0 | -78.5 | -77.5 |
| ACM / Fixed | 88 Mbps | 256QAM | -75.5 | -75.0 | -75.5 | -74.0 |
| ACM / Fixed | 100 Mbps | 512QAM | -72.0 | -71.5 | -72.0 | -71.0 |
| ACM / Fixed | 110 Mbps | 1024QAM | -69.5 | -69.0 | -69.5 | -68.0 |
| ACM / Fixed | 118 Mbps | 2048QAM | -66.0 | -65.5 | -66.0 | -65.0 |

*[] See notes in last page

Receiver Specifications

Receiver Thershold BER=1E-6^[6], in dBm (OMT option, Typical)

| Air Link ^[9] Capacity | | Modulation | L6/U6 GHz | 7 GHz | 8 GHz | 10 GHz |
|-------------------------------------|-----------|------------|-----------|-------|-------|--------|
| 13.75 / 14 MHz Channel | | | | | | |
| ACM / Fixed | 36 Mbps | QPSK | -92.5 | -92.0 | -92.5 | -91.5 |
| ACM / Fixed | 82 Mbps | 16QAM | -85.5 | -85.0 | -85.5 | -84.0 |
| ACM / Fixed | 98 Mbps | 32QAM | -82.5 | -82.0 | -82.5 | -81.0 |
| ACM / Fixed | 126 Mbps | 64QAM | -79.5 | -79.0 | -79.5 | -78.5 |
| ACM / Fixed | 156 Mbps | 128QAM | -76.0 | -75.5 | -76.0 | -74.5 |
| ACM / Fixed | 180 Mbps | 256QAM | -72.5 | -72.0 | -72.5 | -71.5 |
| ACM / Fixed | 204 Mbps | 512QAM | -69.0 | -68.5 | -69.0 | -68.0 |
| ACM / Fixed | 224 Mbps | 1024QAM | -66.5 | -66.0 | -66.5 | -65.0 |
| ACM / Fixed | 244 Mbps | 2048QAM | -63.0 | -62.5 | -63.0 | -62.0 |
| ACM / Fixed | 260 Mbps | 4096QAM | -59.5 | -59.0 | -59.5 | -58.5 |
| 27.5 / 28 MHz Channel | | | | | | |
| ACM / Fixed | 76 Mbps | QPSK | -90.0 | -89.5 | -90.0 | -88.5 |
| ACM / Fixed | 146 Mbps | 16QAM | -84.0 | -83.5 | -84.0 | -83.0 |
| ACM / Fixed | 198 Mbps | 32QAM | -79.5 | -79.0 | -79.5 | -78.5 |
| ACM / Fixed | 248 Mbps | 64QAM | -77.0 | -76.5 | -77.0 | -76.0 |
| ACM / Fixed | 314 Mbps | 128QAM | -72.5 | -72.0 | -72.5 | -71.5 |
| ACM / Fixed | 360 Mbps | 256QAM | -69.5 | -69.0 | -69.5 | -68.5 |
| ACM / Fixed | 410 Mbps | 512QAM | -66.0 | -65.5 | -66.0 | -65.0 |
| ACM / Fixed | 448 Mbps | 1024QAM | -63.5 | -63.0 | -63.5 | -62.5 |
| ACM / Fixed | 490 Mbps | 2048QAM | -60.5 | -60.0 | -60.5 | -59.0 |
| ACM / Fixed | 520 Mbps | 4096QAM | -57.0 | -56.5 | -57.0 | -56.0 |
| 40 MHz Channel | | | | | | |
| ACM / Fixed | 104 Mbps | QPSK | -88.5 | -88.0 | -88.5 | -87.0 |
| ACM / Fixed | 202 Mbps | 16QAM | -82.5 | -82.0 | -82.5 | -81.5 |
| ACM / Fixed | 282 Mbps | 32QAM | -77.5 | -77.0 | -77.5 | -76.5 |
| ACM / Fixed | 340 Mbps | 64QAM | -75.5 | -75.0 | -75.5 | -74.5 |
| ACM / Fixed | 430 Mbps | 128QAM | -71.5 | -71.0 | -71.5 | -70.0 |
| ACM / Fixed | 500 Mbps | 256QAM | -67.5 | -67.0 | -67.5 | -66.5 |
| ACM / Fixed | 562 Mbps | 512QAM | -65.0 | -64.5 | -65.0 | -63.5 |
| ACM / Fixed | 614 Mbps | 1024QAM | -62.0 | -61.5 | -62.0 | -61.0 |
| ACM / Fixed | 672 Mbps | 2048QAM | -59.0 | -58.5 | -59.0 | -57.5 |
| ACM / Fixed | 712 Mbps | 4096QAM | -55.5 | -55.0 | -55.5 | -54.5 |
| 55 / 56 MHz Channel | | | | | | |
| ACM / Fixed | 150 Mbps | QPSK | -87.5 | -87.0 | -87.5 | -86.0 |
| ACM / Fixed | 300 Mbps | 16QAM | -81.0 | -80.5 | -81.0 | -80.0 |
| ACM / Fixed | 400 Mbps | 32QAM | -76.5 | -76.0 | -76.5 | -75.5 |
| ACM / Fixed | 500 Mbps | 64QAM | -74.5 | -74.0 | -74.5 | -73.5 |
| ACM / Fixed | 642 Mbps | 128QAM | -70.0 | -69.5 | -70.0 | -68.5 |
| ACM / Fixed | 742 Mbps | 256QAM | -66.5 | -66.0 | -66.5 | -65.0 |
| ACM / Fixed | 834 Mbps | 512QAM | -63.5 | -63.0 | -63.5 | -62.0 |
| ACM / Fixed | 916 Mbps | 1024QAM | -60.5 | -60.0 | -60.5 | -59.5 |
| ACM / Fixed | 1000 Mbps | 2048QAM | -57.5 | -57.0 | -57.5 | -56.0 |
| ACM / Fixed | 1062 Mbps | 4096QAM | -54.5 | -54.0 | -54.5 | -53.0 |

*[] See notes in last page

Receiver Specifications

Receiver Thershold BER=1E-6^[6], in dBm (OMT option, Typical)

| | | Air Link ^[9] Capacity | Modulation | L6/U6 GHz | 7 GHz | 8 GHz | 10 GHz |
|-------------------------------|-----------|-------------------------------------|------------|-----------|-------|-------|--------|
| 80 MHz Channel ^[8] | | | | | | | |
| ACM / Fixed | 208 Mbps | QPSK | -85.5 | | | | |
| ACM / Fixed | 484 Mbps | 16QAM | -77.5 | | | | |
| ACM / Fixed | 558 Mbps | 32QAM | -75.0 | | | | |
| ACM / Fixed | 706 Mbps | 64QAM | -72.5 | | | | |
| ACM / Fixed | 848 Mbps | 128QAM | -69.0 | | | | |
| ACM / Fixed | 968 Mbps | 256QAM | -66.0 | | | | |
| ACM / Fixed | 1108 Mbps | 512QAM | -63.0 | | | | |
| ACM / Fixed | 1244 Mbps | 1024QAM | -59.5 | | | | |
| ACM / Fixed | 1370 Mbps | 2048QAM | -56.0 | | | | |
| ACM / Fixed | 1462 Mbps | 4096QAM | -52.5 | | | | |

*[] See notes in last page

System Gain Specifications

System Gain BER=1E-6^[6], in dB (OMT option, Typical)

| | Air Link Capacity ^[9] | Modulation | L6/U6 GHz | 7 GHz | 8 GHz | 10 GHz |
|-------------------------------|----------------------------------|------------|-----------|-------|-------|--------|
| 7 MHz Channel | | | | | | |
| ACM / Fixed | 18 Mbps | QPSK | 125.5 | 125.0 | 124.5 | 122.5 |
| ACM / Fixed | 36 Mbps | 16QAM | 119.0 | 118.0 | 118.0 | 115.5 |
| ACM / Fixed | 48 Mbps | 32QAM | 114.5 | 113.5 | 113.5 | 111.0 |
| ACM / Fixed | 60 Mbps | 64QAM | 111.5 | 110.5 | 110.5 | 108.0 |
| ACM / Fixed | 76 Mbps | 128QAM | 107.5 | 106.5 | 106.5 | 104.5 |
| ACM / Fixed | 88 Mbps | 256QAM | 104.5 | 103.5 | 103.5 | 101.0 |
| ACM / Fixed | 100 Mbps | 512QAM | 100.5 | 99.5 | 99.5 | 97.5 |
| ACM / Fixed | 110 Mbps | 1024QAM | 97.0 | 96.0 | 96.0 | 93.5 |
| ACM / Fixed | 118 Mbps | 2048QAM | 92.5 | 91.5 | 91.5 | 89.5 |
| 13.75 / 14 MHz Channel | | | | | | |
| ACM / Fixed | 36 Mbps | QPSK | 123.0 | 122.5 | 122.0 | 120.0 |
| ACM / Fixed | 82 Mbps | 16QAM | 115.0 | 114.0 | 114.0 | 111.5 |
| ACM / Fixed | 98 Mbps | 32QAM | 112.0 | 111.0 | 111.0 | 108.5 |
| ACM / Fixed | 126 Mbps | 64QAM | 108.5 | 107.5 | 107.5 | 105.5 |
| ACM / Fixed | 156 Mbps | 128QAM | 105.0 | 104.0 | 104.0 | 101.5 |
| ACM / Fixed | 180 Mbps | 256QAM | 101.5 | 100.5 | 100.5 | 98.5 |
| ACM / Fixed | 204 Mbps | 512QAM | 97.5 | 96.5 | 96.5 | 94.5 |
| ACM / Fixed | 224 Mbps | 1024QAM | 94.0 | 93.0 | 93.0 | 90.5 |
| ACM / Fixed | 244 Mbps | 2048QAM | 89.5 | 88.5 | 88.5 | 86.5 |
| ACM / Fixed | 260 Mbps | 4096QAM | 85.0 | 84.0 | 84.0 | 82.0 |
| 27.5 / 28 MHz Channel | | | | | | |
| ACM / Fixed | 76 Mbps | QPSK | 120.5 | 120.0 | 119.5 | 117.0 |
| ACM / Fixed | 146 Mbps | 16QAM | 113.5 | 112.5 | 112.5 | 110.5 |
| ACM / Fixed | 198 Mbps | 32QAM | 109.0 | 108.0 | 108.0 | 106.0 |
| ACM / Fixed | 248 Mbps | 64QAM | 106.0 | 105.0 | 105.0 | 103.0 |
| ACM / Fixed | 314 Mbps | 128QAM | 101.5 | 100.5 | 100.5 | 98.5 |
| ACM / Fixed | 360 Mbps | 256QAM | 98.5 | 97.5 | 97.5 | 95.5 |
| ACM / Fixed | 410 Mbps | 512QAM | 94.5 | 93.5 | 93.5 | 91.5 |
| ACM / Fixed | 448 Mbps | 1024QAM | 91.0 | 90.0 | 90.0 | 88.0 |
| ACM / Fixed | 490 Mbps | 2048QAM | 87.0 | 86.0 | 86.0 | 83.5 |
| ACM / Fixed | 520 Mbps | 4096QAM | 82.5 | 81.5 | 81.5 | 79.5 |
| 40 MHz Channel | | | | | | |
| ACM / Fixed | 104 Mbps | QPSK | 119.0 | 118.5 | 118.0 | 115.5 |
| ACM / Fixed | 202 Mbps | 16QAM | 112.0 | 111.0 | 111.0 | 109.0 |
| ACM / Fixed | 282 Mbps | 32QAM | 107.0 | 106.0 | 106.0 | 104.0 |
| ACM / Fixed | 340 Mbps | 64QAM | 104.5 | 103.5 | 103.5 | 101.5 |
| ACM / Fixed | 430 Mbps | 128QAM | 100.5 | 99.5 | 99.5 | 97.0 |
| ACM / Fixed | 500 Mbps | 256QAM | 96.5 | 95.5 | 95.5 | 93.5 |
| ACM / Fixed | 562 Mbps | 512QAM | 93.5 | 92.5 | 92.5 | 90.0 |
| ACM / Fixed | 614 Mbps | 1024QAM | 89.5 | 88.5 | 88.5 | 86.5 |
| ACM / Fixed | 672 Mbps | 2048QAM | 85.5 | 84.5 | 84.5 | 82.0 |
| ACM / Fixed | 712 Mbps | 4096QAM | 81.0 | 80.0 | 80.0 | 78.0 |

*[] See notes in last page

System Gain Specifications

System Gain BER=1E-6^[6], in dB (OMT option, Typical)

| Air Link ^[9] Capacity | | Modulation | L6/U6 GHz | 7 GHz | 8 GHz | 10 GHz |
|-------------------------------------|-----------|------------|-----------|-------|-------|--------|
| 55 / 56 MHz Channel | | | | | | |
| ACM / Fixed | 150 Mbps | QPSK | 118.0 | 117.5 | 117.0 | 114.5 |
| ACM / Fixed | 300 Mbps | 16QAM | 110.5 | 109.5 | 109.5 | 107.5 |
| ACM / Fixed | 400 Mbps | 32QAM | 106.0 | 105.0 | 105.0 | 103.0 |
| ACM / Fixed | 500 Mbps | 64QAM | 103.5 | 102.5 | 102.5 | 100.5 |
| ACM / Fixed | 642 Mbps | 128QAM | 99.0 | 98.0 | 98.0 | 95.5 |
| ACM / Fixed | 742 Mbps | 256QAM | 95.5 | 94.5 | 94.5 | 92.0 |
| ACM / Fixed | 834 Mbps | 512QAM | 92.0 | 91.0 | 91.0 | 88.5 |
| ACM / Fixed | 916 Mbps | 1024QAM | 88.0 | 87.0 | 87.0 | 85.0 |
| ACM / Fixed | 1000 Mbps | 2048QAM | 84.0 | 83.0 | 83.0 | 80.5 |
| ACM / Fixed | 1062 Mbps | 4096QAM | 80.0 | 79.0 | 79.0 | 76.5 |
| 80 MHz Channel^[8] | | | | | | |
| ACM / Fixed | 208 Mbps | QPSK | 116.0 | | | |
| ACM / Fixed | 484 Mbps | 16QAM | 107.0 | | | |
| ACM / Fixed | 558 Mbps | 32QAM | 104.5 | | | |
| ACM / Fixed | 706 Mbps | 64QAM | 101.5 | | | |
| ACM / Fixed | 848 Mbps | 128QAM | 98.0 | | | |
| ACM / Fixed | 968 Mbps | 256QAM | 95.0 | | | |
| ACM / Fixed | 1108 Mbps | 512QAM | 91.5 | | | |
| ACM / Fixed | 1244 Mbps | 1024QAM | 87.0 | | | |
| ACM / Fixed | 1370 Mbps | 2048QAM | 82.5 | | | |
| ACM / Fixed | 1462 Mbps | 4096QAM | 78.0 | | | |

*[] See notes in last page

Transmitter Specifications

System

| | 11 GHz | 13 GHz | 15 GHz | 18 GHz | 23 GHz |
|-----------------------------|--------------------|------------|--|-------------------------------|------------------|
| Frequency Range (GHz) | 10.7-11.7 | 12.7-13.25 | 14.5-15.35 | 17.7-19.7 | 21.2-23.6 |
| TR-Spacings Supported (MHz) | 490, 500, 520, 530 | 225, 266 | 315, 322, 420, 457, 490, 640, 644, 728 | 340, 1008, 1010, 1092.5, 1120 | 1008, 1200, 1232 |

Antenna Interface

| | | | | | |
|--------------------|--------|--------|--------|--------|--------|
| Waveguide Type | WR90 | WR62 | WR62 | WR42 | WR42 |
| Flange Type | UDR100 | UBR140 | UBR140 | UBR220 | UBR220 |
| Mating Flange Type | PDR100 | PBR140 | PBR140 | PBR220 | PBR220 |

Transmitter Power Output Specifications^[5], in dBm (OMT option, Nominal)

| Modulation | 11 GHz | 13 GHz | 15 GHz | 18 GHz | 23 GHz |
|--------------------------------|--------|--------|--------|--------|--------|
| QPSK | 29.0 | 26.0 | 26.0 | 23.0 | 23.0 |
| 16QAM | 28.0 | 24.0 | 24.0 | 21.0 | 21.0 |
| 32QAM | 28.0 | 24.0 | 24.0 | 21.0 | 21.0 |
| 64QAM | 27.5 | 24.0 | 24.0 | 21.0 | 21.0 |
| 128QAM | 27.5 | 24.0 | 24.0 | 21.0 | 21.0 |
| 256QAM | 27.5 | 23.5 | 23.5 | 20.5 | 20.5 |
| 512QAM | 27.0 | 23.5 | 23.5 | 20.5 | 20.5 |
| 1024QAM | 26.0 | 22.5 | 22.5 | 18.5 | 19.5 |
| 2048QAM | 25.0 | 21.0 | 21.0 | 18.0 | 18.0 |
| 4096QAM | 24.0 | 19.5 | 19.5 | 16.5 | 16.5 |
| Min Power for channels ≤ 56MHz | 9.0 | 6.0 | 6.0 | 3.0 | 3.0 |
| Min Power for channels ≥ 80MHz | 14.5 | | | 14.5 | 14.5 |

Receiver Specifications

Receiver Threshold BER=1E-6^[6], in dBm (OMT option, Typical)

| Air Link ^[9] Capacity | Modulation | 11 GHz | 13 GHz | 15 GHz | 18 GHz | 23 GHz |
|----------------------------------|------------|---------|--------|--------|--------|--------|
| 7 MHz Channel | | | | | | |
| ACM / Fixed | 18 Mbps | QPSK | -94.5 | -94.0 | -94.5 | -94.0 |
| ACM / Fixed | 36 Mbps | 16QAM | -88.5 | -88.5 | -89.0 | -88.5 |
| ACM / Fixed | 48 Mbps | 32QAM | -84.0 | -83.5 | -84.0 | -83.5 |
| ACM / Fixed | 60 Mbps | 64QAM | -81.5 | -81.5 | -82.0 | -81.5 |
| ACM / Fixed | 76 Mbps | 128QAM | -78.0 | -77.5 | -78.0 | -77.5 |
| ACM / Fixed | 88 Mbps | 256QAM | -74.5 | -74.0 | -74.5 | -74.0 |
| ACM / Fixed | 100 Mbps | 512QAM | -71.5 | -71.0 | -71.5 | -71.0 |
| ACM / Fixed | 110 Mbps | 1024QAM | -68.5 | -68.0 | -68.5 | -68.0 |
| ACM / Fixed | 118 Mbps | 2048QAM | -65.5 | -65.0 | -65.5 | -65.0 |
| 13.75 / 14 MHz Channel | | | | | | |
| ACM / Fixed | 36 Mbps | QPSK | -92.0 | -91.5 | -92.0 | -91.5 |
| ACM / Fixed | 82 Mbps | 16QAM | -84.5 | -84.5 | -85.0 | -84.5 |
| ACM / Fixed | 98 Mbps | 32QAM | -81.5 | -81.0 | -81.5 | -81.0 |
| ACM / Fixed | 126 Mbps | 64QAM | -79.0 | -78.5 | -79.0 | -78.5 |
| ACM / Fixed | 156 Mbps | 128QAM | -75.0 | -75.0 | -75.5 | -75.0 |
| ACM / Fixed | 180 Mbps | 256QAM | -72.0 | -71.5 | -72.0 | -71.5 |
| ACM / Fixed | 204 Mbps | 512QAM | -68.5 | -68.0 | -68.5 | -68.0 |
| ACM / Fixed | 224 Mbps | 1024QAM | -65.5 | -65.5 | -66.0 | -65.5 |
| ACM / Fixed | 244 Mbps | 2048QAM | -62.5 | -62.0 | -62.5 | -62.0 |
| ACM / Fixed | 260 Mbps | 4096QAM | -59.0 | -58.5 | -59.0 | -58.5 |

*[] See notes in last page

Receiver Specifications

Receiver Threshold BER=1E-6^[6], in dBm (OMT option, Typical)

| Air Link ^[9] Capacity | | | 11 GHz | 13 GHz | 15 GHz | 18 GHz | 23 GHz |
|----------------------------------|-----------|---------|--------|--------|--------|--------|--------|
| 27.5 / 28 MHz Channel | | | | | | | |
| ACM / Fixed | 76 Mbps | QPSK | -89.0 | -89.0 | -89.5 | -89.0 | -89.0 |
| ACM / Fixed | 146 Mbps | 16QAM | -83.5 | -83.0 | -83.5 | -83.0 | -83.0 |
| ACM / Fixed | 198 Mbps | 32QAM | -79.0 | -78.5 | -79.0 | -78.5 | -78.5 |
| ACM / Fixed | 248 Mbps | 64QAM | -76.5 | -76.0 | -76.5 | -76.0 | -76.0 |
| ACM / Fixed | 314 Mbps | 128QAM | -72.0 | -71.5 | -72.0 | -71.5 | -71.5 |
| ACM / Fixed | 360 Mbps | 256QAM | -69.0 | -68.5 | -69.0 | -68.5 | -68.5 |
| ACM / Fixed | 410 Mbps | 512QAM | -65.5 | -65.0 | -65.5 | -65.0 | -65.0 |
| ACM / Fixed | 448 Mbps | 1024QAM | -63.0 | -62.5 | -63.0 | -62.5 | -62.5 |
| ACM / Fixed | 490 Mbps | 2048QAM | -59.5 | -59.0 | -59.5 | -59.0 | -59.0 |
| ACM / Fixed | 520 Mbps | 4096QAM | -56.5 | -56.0 | -56.5 | -56.0 | -56.0 |
| 40 MHz Channel | | | | | | | |
| ACM / Fixed | 104 Mbps | QPSK | -87.5 | -87.5 | -88.0 | -87.5 | -87.5 |
| ACM / Fixed | 202 Mbps | 16QAM | -82.0 | -81.5 | -82.0 | -81.5 | -81.5 |
| ACM / Fixed | 282 Mbps | 32QAM | -77.0 | -76.5 | -77.0 | -76.5 | -76.5 |
| ACM / Fixed | 340 Mbps | 64QAM | -75.0 | -74.5 | -75.0 | -74.5 | -74.5 |
| ACM / Fixed | 430 Mbps | 128QAM | -70.5 | -70.0 | -70.5 | -70.0 | -70.0 |
| ACM / Fixed | 500 Mbps | 256QAM | -67.0 | -66.5 | -67.0 | -66.5 | -66.5 |
| ACM / Fixed | 562 Mbps | 512QAM | -64.0 | -63.5 | -64.0 | -63.5 | -63.5 |
| ACM / Fixed | 614 Mbps | 1024QAM | -61.5 | -61.0 | -61.5 | -61.0 | -61.0 |
| ACM / Fixed | 672 Mbps | 2048QAM | -58.0 | -58.0 | -58.5 | -58.0 | -58.0 |
| ACM / Fixed | 712 Mbps | 4096QAM | -55.0 | -54.5 | -55.0 | -54.5 | -54.5 |
| 55 / 56 MHz Channel | | | | | | | |
| ACM / Fixed | 150 Mbps | QPSK | -86.5 | -86.5 | -87.0 | -86.5 | -86.5 |
| ACM / Fixed | 300 Mbps | 16QAM | -80.5 | -80.0 | -80.5 | -80.0 | -80.0 |
| ACM / Fixed | 400 Mbps | 32QAM | -76.0 | -75.5 | -76.0 | -75.5 | -75.5 |
| ACM / Fixed | 500 Mbps | 64QAM | -74.0 | -73.5 | -74.0 | -73.5 | -73.5 |
| ACM / Fixed | 642 Mbps | 128QAM | -69.0 | -69.0 | -69.5 | -69.0 | -69.0 |
| ACM / Fixed | 742 Mbps | 256QAM | -65.5 | -65.5 | -66.0 | -65.5 | -65.5 |
| ACM / Fixed | 834 Mbps | 512QAM | -62.5 | -62.0 | -62.5 | -62.0 | -62.0 |
| ACM / Fixed | 916 Mbps | 1024QAM | -60.0 | -59.5 | -60.0 | -59.5 | -59.5 |
| ACM / Fixed | 1000 Mbps | 2048QAM | -56.5 | -56.0 | -56.5 | -56.0 | -56.0 |
| ACM / Fixed | 1062 Mbps | 4096QAM | -53.5 | -53.0 | -53.5 | -53.0 | -53.0 |
| 80 MHz Channel | | | | | | | |
| ACM / Fixed | 208 Mbps | QPSK | -85.0 | | | | |
| ACM / Fixed | 484 Mbps | 16QAM | -77.0 | | | | |
| ACM / Fixed | 558 Mbps | 32QAM | -74.5 | | | | |
| ACM / Fixed | 706 Mbps | 64QAM | -71.5 | | | | |
| ACM / Fixed | 848 Mbps | 128QAM | -68.5 | | | | |
| ACM / Fixed | 968 Mbps | 256QAM | -65.5 | | | | |
| ACM / Fixed | 1108 Mbps | 512QAM | -62.0 | | | | |
| ACM / Fixed | 1244 Mbps | 1024QAM | -58.5 | | | | |
| ACM / Fixed | 1370 Mbps | 2048QAM | -55.0 | | | | |
| ACM / Fixed | 1462 Mbps | 4096QAM | -52.0 | | | | |
| 110 / 112 MHz Channel | | | | | | | |
| ACM / Fixed | 302 Mbps | QPSK | | | | -83.5 | -83.5 |
| ACM / Fixed | 602 Mbps | 16QAM | | | | -77.0 | -77.0 |
| ACM / Fixed | 800 Mbps | 32QAM | | | | -72.5 | -72.5 |
| ACM / Fixed | 1002 Mbps | 64QAM | | | | -70.5 | -70.5 |
| ACM / Fixed | 1282 Mbps | 128QAM | | | | -66.0 | -66.0 |
| ACM / Fixed | 1482 Mbps | 256QAM | | | | -62.5 | -62.5 |
| ACM / Fixed | 1668 Mbps | 512QAM | | | | -59.0 | -59.0 |
| ACM / Fixed | 1832 Mbps | 1024QAM | | | | -56.5 | -56.5 |
| ACM / Fixed | 2002 Mbps | 2048QAM | | | | -53.0 | -53.0 |
| ACM / Fixed | 2124 Mbps | 4096QAM | | | | -50.0 | -50.0 |

*[] See notes in last page

System Gain Specifications

System Gain BER=1E-6^[6], in dB (OMT option, Typical)

| Air Link ^[9] Capacity | | Modulation | 11 GHz | 13 GHz | 15 GHz | 18 GHz | 23 GHz |
|----------------------------------|----------|------------|--------|--------|--------|--------|--------|
| 7 MHz Channel | | | | | | | |
| ACM / Fixed | 18 Mbps | QPSK | 123.5 | 120.0 | 120.5 | 117.0 | 117.0 |
| ACM / Fixed | 36 Mbps | 16QAM | 116.5 | 112.5 | 113.0 | 109.5 | 109.5 |
| ACM / Fixed | 48 Mbps | 32QAM | 112.0 | 107.5 | 108.0 | 104.5 | 104.5 |
| ACM / Fixed | 60 Mbps | 64QAM | 109.0 | 105.5 | 106.0 | 102.5 | 102.5 |
| ACM / Fixed | 76 Mbps | 128QAM | 105.5 | 101.5 | 102.0 | 98.5 | 98.5 |
| ACM / Fixed | 88 Mbps | 256QAM | 102.0 | 97.5 | 98.0 | 94.5 | 94.5 |
| ACM / Fixed | 100 Mbps | 512QAM | 98.5 | 94.5 | 95.0 | 91.5 | 91.5 |
| ACM / Fixed | 110 Mbps | 1024QAM | 94.5 | 90.5 | 91.0 | 87.5 | 87.5 |
| ACM / Fixed | 118 Mbps | 2048QAM | 90.5 | 86.0 | 86.5 | 83.0 | 83.0 |
| 13.75 / 14 MHz Channel | | | | | | | |
| ACM / Fixed | 36 Mbps | QPSK | 121.0 | 117.5 | 118.0 | 114.5 | 114.5 |
| ACM / Fixed | 82 Mbps | 16QAM | 112.5 | 108.5 | 109.0 | 105.5 | 105.5 |
| ACM / Fixed | 98 Mbps | 32QAM | 109.5 | 105.0 | 105.5 | 102.0 | 102.0 |
| ACM / Fixed | 126 Mbps | 64QAM | 106.5 | 102.5 | 103.0 | 99.5 | 99.5 |
| ACM / Fixed | 156 Mbps | 128QAM | 102.5 | 99.0 | 99.5 | 96.0 | 96.0 |
| ACM / Fixed | 180 Mbps | 256QAM | 99.5 | 95.0 | 95.5 | 92.0 | 92.0 |
| ACM / Fixed | 204 Mbps | 512QAM | 95.5 | 91.5 | 92.0 | 88.5 | 88.5 |
| ACM / Fixed | 224 Mbps | 1024QAM | 91.5 | 88.0 | 88.5 | 85.0 | 85.0 |
| ACM / Fixed | 244 Mbps | 2048QAM | 87.5 | 83.0 | 83.5 | 80.0 | 80.0 |
| ACM / Fixed | 260 Mbps | 4096QAM | 83.0 | 78.0 | 78.5 | 75.0 | 75.0 |
| 27.5 / 28 MHz Channel | | | | | | | |
| ACM / Fixed | 76 Mbps | QPSK | 118.0 | 115.0 | 115.5 | 112.0 | 112.0 |
| ACM / Fixed | 146 Mbps | 16QAM | 111.5 | 107.0 | 107.5 | 104.0 | 104.0 |
| ACM / Fixed | 198 Mbps | 32QAM | 107.0 | 102.5 | 103.0 | 99.5 | 99.5 |
| ACM / Fixed | 248 Mbps | 64QAM | 104.0 | 100.0 | 100.5 | 97.0 | 97.0 |
| ACM / Fixed | 314 Mbps | 128QAM | 99.5 | 95.5 | 96.0 | 92.5 | 92.5 |
| ACM / Fixed | 360 Mbps | 256QAM | 96.5 | 92.0 | 92.5 | 89.0 | 89.0 |
| ACM / Fixed | 410 Mbps | 512QAM | 92.5 | 88.5 | 89.0 | 85.5 | 85.5 |
| ACM / Fixed | 448 Mbps | 1024QAM | 89.0 | 85.0 | 85.5 | 82.0 | 82.0 |
| ACM / Fixed | 490 Mbps | 2048QAM | 84.5 | 80.0 | 80.5 | 77.0 | 77.0 |
| ACM / Fixed | 520 Mbps | 4096QAM | 80.5 | 75.5 | 76.0 | 72.5 | 72.5 |
| 40 MHz Channel | | | | | | | |
| ACM / Fixed | 104 Mbps | QPSK | 116.5 | 113.5 | 114.0 | 110.5 | 110.5 |
| ACM / Fixed | 202 Mbps | 16QAM | 110.0 | 105.5 | 106.0 | 102.5 | 102.5 |
| ACM / Fixed | 282 Mbps | 32QAM | 105.0 | 100.5 | 101.0 | 97.5 | 97.5 |
| ACM / Fixed | 340 Mbps | 64QAM | 102.5 | 98.5 | 99.0 | 95.5 | 95.5 |
| ACM / Fixed | 430 Mbps | 128QAM | 98.0 | 94.0 | 94.5 | 91.0 | 91.0 |
| ACM / Fixed | 500 Mbps | 256QAM | 94.5 | 90.0 | 90.5 | 87.0 | 87.0 |
| ACM / Fixed | 562 Mbps | 512QAM | 91.0 | 87.0 | 87.5 | 84.0 | 84.0 |
| ACM / Fixed | 614 Mbps | 1024QAM | 87.5 | 83.5 | 84.0 | 80.5 | 80.5 |
| ACM / Fixed | 672 Mbps | 2048QAM | 83.0 | 79.0 | 79.5 | 76.0 | 76.0 |
| ACM / Fixed | 712 Mbps | 4096QAM | 79.0 | 74.0 | 74.5 | 71.0 | 71.0 |

*[] See notes in last page

System Gain Specifications

System Gain BER=1E-6^[6], in dB (OMT option, Typical)

| Air Link ^[9] Capacity | | Modulation | 11 GHz | 13 GHz | 15 GHz | 18 GHz | 23 GHz |
|----------------------------------|-----------|------------|--------|--------|--------|--------|--------|
| 55 / 56 MHz Channel | | | | | | | |
| ACM / Fixed | 150 Mbps | QPSK | 115.5 | 112.5 | 113.0 | 109.5 | 109.5 |
| ACM / Fixed | 300 Mbps | 16QAM | 108.5 | 104.0 | 104.5 | 101.0 | 101.0 |
| ACM / Fixed | 400 Mbps | 32QAM | 104.0 | 99.5 | 100.0 | 96.5 | 96.5 |
| ACM / Fixed | 500 Mbps | 64QAM | 101.5 | 97.5 | 98.0 | 94.5 | 94.5 |
| ACM / Fixed | 642 Mbps | 128QAM | 96.5 | 93.0 | 93.5 | 90.0 | 90.0 |
| ACM / Fixed | 742 Mbps | 256QAM | 93.0 | 89.0 | 89.5 | 86.0 | 86.0 |
| ACM / Fixed | 834 Mbps | 512QAM | 89.5 | 85.5 | 86.0 | 82.5 | 82.5 |
| ACM / Fixed | 916 Mbps | 1024QAM | 86.0 | 82.0 | 82.5 | 79.0 | 79.0 |
| ACM / Fixed | 1000 Mbps | 2048QAM | 81.5 | 77.0 | 77.5 | 74.0 | 74.0 |
| ACM / Fixed | 1062 Mbps | 4096QAM | 77.5 | 72.5 | 73.0 | 69.5 | 69.5 |
| 80 MHz Channel | | | | | | | |
| ACM / Fixed | 208 Mbps | QPSK | 114.0 | | | | |
| ACM / Fixed | 484 Mbps | 16QAM | 105.0 | | | | |
| ACM / Fixed | 558 Mbps | 32QAM | 102.5 | | | | |
| ACM / Fixed | 706 Mbps | 64QAM | 99.0 | | | | |
| ACM / Fixed | 848 Mbps | 128QAM | 96.0 | | | | |
| ACM / Fixed | 968 Mbps | 256QAM | 93.0 | | | | |
| ACM / Fixed | 1108 Mbps | 512QAM | 89.0 | | | | |
| ACM / Fixed | 1244 Mbps | 1024QAM | 84.5 | | | | |
| ACM / Fixed | 1370 Mbps | 2048QAM | 80.0 | | | | |
| ACM / Fixed | 1462 Mbps | 4096QAM | 76.0 | | | | |
| 110 / 112 MHz Channel | | | | | | | |
| ACM / Fixed | 302 Mbps | QPSK | | | | 106.5 | 106.5 |
| ACM / Fixed | 602 Mbps | 16QAM | | | | 98.0 | 98.0 |
| ACM / Fixed | 800 Mbps | 32QAM | | | | 93.5 | 93.5 |
| ACM / Fixed | 1002 Mbps | 64QAM | | | | 91.5 | 91.5 |
| ACM / Fixed | 1282 Mbps | 128QAM | | | | 87.0 | 87.0 |
| ACM / Fixed | 1482 Mbps | 256QAM | | | | 83.0 | 83.0 |
| ACM / Fixed | 1668 Mbps | 512QAM | | | | 79.5 | 79.5 |
| ACM / Fixed | 1832 Mbps | 1024QAM | | | | 76.0 | 76.0 |
| ACM / Fixed | 2002 Mbps | 2048QAM | | | | 71.0 | 71.0 |
| ACM / Fixed | 2124 Mbps | 4096QAM | | | | 66.5 | 66.5 |

*[] See notes in last page

Transmitter Specifications

System

| | 26 GHz | 28 GHz | 32 GHz | 38 GHz | 42 GHz |
|-----------------------------|-----------|-----------|-----------|---------|-----------|
| Frequency Range (GHz) | 24.2-26.5 | 27.5-29.5 | 31.8-33.4 | 38.6-40 | 40.5-43.5 |
| TR-Spacings Supported (MHz) | 1008 | 1008 | 812 | 1260 | 1500 |

Antenna Interface

| | | | | | |
|--------------------|--------|--------|--------|--------|---------|
| Waveguide Type | WR34 | WR28 | WR28 | WR28 | WR22 |
| Flange Type | UBR260 | UBR320 | UBR320 | UBR320 | UG383/U |
| Mating Flange Type | PBR260 | PBR320 | PBR320 | PBR320 | UG383/U |

Transmitter Power Output Specifications^[5], in dBm (OMT option, Nominal)

| Modulation | 26 GHz | 28 GHz | 32 GHz | 38 GHz | 42 GHz |
|--------------------------------|--------|--------|--------|--------|--------|
| QPSK | 22.0 | 22.0 | 22.0 | 21.0 | 19.0 |
| 16QAM | 20.0 | 20.0 | 20.0 | 19.0 | 17.0 |
| 32QAM | 20.0 | 20.0 | 20.0 | 19.0 | 17.0 |
| 64QAM | 20.0 | 20.0 | 20.0 | 19.0 | 17.0 |
| 128QAM | 20.0 | 20.0 | 20.0 | 19.0 | 17.0 |
| 256QAM | 19.5 | 19.5 | 19.5 | 18.5 | 16.5 |
| 512QAM | 19.5 | 19.5 | 19.5 | 18.5 | 16.5 |
| 1024QAM | 18.5 | 18.5 | 18.5 | 17.5 | 15.5 |
| 2048QAM | 17.0 | 17.0 | 17.0 | 16.0 | 14.0 |
| 4096QAM | 15.5 | 15.5 | 15.5 | 14.5 | 12.5 |
| Min Power for channels ≤ 56MHz | 2.0 | 2.0 | 2.0 | 1.0 | -1.0 |
| Min Power for channels ≥ 80MHz | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |

Receiver Specifications

Receiver Thershold BER=1E-6^[6], in dBm (OMT option, Typical)

| Air Link ^[9] Capacity | Modulation | 26 GHz | 28 GHz | 32 GHz | 38 GHz | 42 GHz | |
|----------------------------------|------------|---------|--------|--------|--------|--------|-------|
| 7 MHz Channel | | | | | | | |
| ACM / Fixed | 18 Mbps | QPSK | -93.0 | -93.0 | -93.0 | -92.5 | -91.5 |
| ACM / Fixed | 36 Mbps | 16QAM | -87.5 | -87.0 | -87.0 | -86.5 | -85.5 |
| ACM / Fixed | 48 Mbps | 32QAM | -84.0 | -82.5 | -82.5 | -82.0 | -82.0 |
| ACM / Fixed | 60 Mbps | 64QAM | -81.0 | -80.0 | -80.0 | -79.5 | -79.5 |
| ACM / Fixed | 76 Mbps | 128QAM | -76.5 | -76.5 | -76.5 | -76.0 | -74.5 |
| ACM / Fixed | 88 Mbps | 256QAM | -73.0 | -73.0 | -73.0 | -72.5 | -71.5 |
| ACM / Fixed | 100 Mbps | 512QAM | -69.5 | -70.0 | -70.0 | -69.5 | -68.0 |
| ACM / Fixed | 110 Mbps | 1024QAM | -66.5 | -67.0 | -67.0 | -66.5 | -64.5 |
| ACM / Fixed | 118 Mbps | 2048QAM | -64.0 | -64.0 | -64.0 | -63.5 | -62.0 |

*[] See notes in last page

Receiver Specifications

Receiver Thershold BER=1E-6^[6], in dBm (OMT option, Typical)

| Air Link ^[9] Capacity Modulation | | | 26 GHz | 28 GHz | 32 GHz | 38 GHz | 42 GHz |
|--|-----------|---------|--------|--------|--------|--------|--------|
| 13.75 / 14 MHz Channel | | | | | | | |
| ACM / Fixed | 36 Mbps | QPSK | -90.0 | -90.5 | -90.5 | -90.0 | -88.0 |
| ACM / Fixed | 82 Mbps | 16QAM | -84.0 | -83.0 | -83.0 | -82.5 | -82.5 |
| ACM / Fixed | 98 Mbps | 32QAM | -81.0 | -80.0 | -80.0 | -79.5 | -79.0 |
| ACM / Fixed | 126 Mbps | 64QAM | -78.0 | -77.5 | -77.5 | -77.0 | -76.0 |
| ACM / Fixed | 156 Mbps | 128QAM | -73.5 | -73.5 | -73.5 | -73.0 | -71.5 |
| ACM / Fixed | 180 Mbps | 256QAM | -70.0 | -70.5 | -70.5 | -70.0 | -68.5 |
| ACM / Fixed | 204 Mbps | 512QAM | -66.5 | -67.0 | -67.0 | -66.5 | -65.0 |
| ACM / Fixed | 224 Mbps | 1024QAM | -63.5 | -64.0 | -64.0 | -63.5 | -61.5 |
| ACM / Fixed | 244 Mbps | 2048QAM | -61.0 | -61.0 | -61.0 | -60.5 | -59.0 |
| ACM / Fixed | 260 Mbps | 4096QAM | -56.0 | -57.5 | -57.5 | -57.0 | -54.5 |
| 27.5 / 28 MHz Channel | | | | | | | |
| ACM / Fixed | 76 Mbps | QPSK | -87.5 | -87.5 | -87.5 | -87.0 | -86.0 |
| ACM / Fixed | 146 Mbps | 16QAM | -81.5 | -82.0 | -82.0 | -81.5 | -80.0 |
| ACM / Fixed | 198 Mbps | 32QAM | -78.0 | -77.5 | -77.5 | -77.0 | -76.0 |
| ACM / Fixed | 248 Mbps | 64QAM | -75.0 | -75.0 | -75.0 | -74.5 | -73.5 |
| ACM / Fixed | 314 Mbps | 128QAM | -70.5 | -70.5 | -70.5 | -70.0 | -68.5 |
| ACM / Fixed | 360 Mbps | 256QAM | -67.0 | -67.5 | -67.5 | -67.0 | -65.5 |
| ACM / Fixed | 410 Mbps | 512QAM | -64.0 | -64.0 | -64.0 | -63.5 | -62.5 |
| ACM / Fixed | 448 Mbps | 1024QAM | -61.0 | -61.5 | -61.5 | -61.0 | -59.0 |
| ACM / Fixed | 490 Mbps | 2048QAM | -57.5 | -58.0 | -58.0 | -57.5 | -56.0 |
| ACM / Fixed | 520 Mbps | 4096QAM | -54.0 | -55.0 | -55.0 | -54.5 | -52.0 |
| 40 MHz Channel | | | | | | | |
| ACM / Fixed | 104 Mbps | QPSK | -86.0 | -86.0 | -86.0 | -85.5 | -84.5 |
| ACM / Fixed | 202 Mbps | 16QAM | -78.0 | -80.5 | -80.5 | -80.0 | -76.5 |
| ACM / Fixed | 282 Mbps | 32QAM | -75.5 | -75.5 | -75.5 | -75.0 | -74.0 |
| ACM / Fixed | 340 Mbps | 64QAM | -72.5 | -73.5 | -73.5 | -73.0 | -71.0 |
| ACM / Fixed | 430 Mbps | 128QAM | -70.0 | -69.0 | -69.0 | -68.5 | -68.0 |
| ACM / Fixed | 500 Mbps | 256QAM | -67.0 | -65.5 | -65.5 | -65.0 | -65.0 |
| ACM / Fixed | 562 Mbps | 512QAM | -63.5 | -62.5 | -62.5 | -62.0 | -62.0 |
| ACM / Fixed | 614 Mbps | 1024QAM | -60.0 | -60.0 | -60.0 | -59.5 | -58.5 |
| ACM / Fixed | 672 Mbps | 2048QAM | -56.5 | -56.5 | -56.5 | -56.0 | -55.0 |
| ACM / Fixed | 712 Mbps | 4096QAM | -52.5 | -53.5 | -53.5 | -53.0 | -51.0 |
| 55 / 56 MHz Channel | | | | | | | |
| ACM / Fixed | 150 Mbps | QPSK | -84.5 | -85.0 | -85.0 | -84.5 | -83.0 |
| ACM / Fixed | 300 Mbps | 16QAM | -78.5 | -79.0 | -79.0 | -78.5 | -77.0 |
| ACM / Fixed | 400 Mbps | 32QAM | -75.0 | -74.5 | -74.5 | -74.0 | -73.0 |
| ACM / Fixed | 500 Mbps | 64QAM | -72.5 | -72.5 | -72.5 | -72.0 | -70.5 |
| ACM / Fixed | 642 Mbps | 128QAM | -67.5 | -67.5 | -67.5 | -67.0 | -65.5 |
| ACM / Fixed | 742 Mbps | 256QAM | -64.0 | -64.0 | -64.0 | -63.5 | -62.5 |
| ACM / Fixed | 834 Mbps | 512QAM | -61.0 | -61.0 | -61.0 | -60.5 | -59.5 |
| ACM / Fixed | 916 Mbps | 1024QAM | -58.5 | -58.5 | -58.5 | -58.0 | -56.5 |
| ACM / Fixed | 1000 Mbps | 2048QAM | -55.5 | -55.0 | -55.0 | -54.5 | -53.5 |
| ACM / Fixed | 1062 Mbps | 4096QAM | -51.5 | -52.0 | -52.0 | -51.5 | -49.5 |

*[] See notes in last page

Receiver Specifications

Receiver Thershold BER=1E-6^[6], in dBm (OMT option, Typical)

| Air Link ^[9] Capacity Modulation | | | 26 GHz | 28 GHz | 32 GHz | 38 GHz | 42 GHz |
|--|-----------|---------|--------|--------|--------|--------|--------|
| 110 / 112 MHz Channel | | | | | | | |
| ACM / Fixed | 302 Mbps | QPSK | -81.5 | -82.0 | -82.0 | -81.5 | -80.0 |
| ACM / Fixed | 602 Mbps | 16QAM | -75.5 | -76.0 | -76.0 | -75.5 | -74.0 |
| ACM / Fixed | 800 Mbps | 32QAM | -72.0 | -71.5 | -71.5 | -71.0 | -70.0 |
| ACM / Fixed | 1002 Mbps | 64QAM | -69.5 | -69.5 | -69.5 | -69.0 | -67.5 |
| ACM / Fixed | 1282 Mbps | 128QAM | -64.5 | -64.5 | -64.5 | -64.0 | -62.5 |
| ACM / Fixed | 1482 Mbps | 256QAM | -61.0 | -61.0 | -61.0 | -60.5 | -59.5 |
| ACM / Fixed | 1668 Mbps | 512QAM | -58.0 | -58.0 | -58.0 | -57.5 | -56.0 |
| ACM / Fixed | 1832 Mbps | 1024QAM | -55.0 | -55.5 | -55.5 | -55.0 | -53.5 |
| ACM / Fixed | 2002 Mbps | 2048QAM | -52.0 | -52.0 | -52.0 | -51.5 | -50.5 |
| ACM / Fixed | 2124 Mbps | 4096QAM | -48.0 | -49.0 | -49.0 | -48.5 | -46.5 |

*[] See notes in last page

System Gain Specifications

System Gain BER=1E-6, in dB (OMT option, Typical)^[6]

| Air Link ^[9] Capacity | | Modulation | 26 GHz | 28 GHz | 32 GHz | 38 GHz | 42 GHz |
|----------------------------------|----------|------------|--------|--------|--------|--------|--------|
| 7 MHz Channel | | | | | | | |
| ACM / Fixed | 18 Mbps | QPSK | 115.0 | 115.0 | 115.0 | 113.5 | 110.5 |
| ACM / Fixed | 36 Mbps | 16QAM | 107.5 | 107.0 | 107.0 | 105.5 | 102.5 |
| ACM / Fixed | 48 Mbps | 32QAM | 104.0 | 102.5 | 102.5 | 101.0 | 99.0 |
| ACM / Fixed | 60 Mbps | 64QAM | 101.0 | 100.0 | 100.0 | 98.5 | 96.5 |
| ACM / Fixed | 76 Mbps | 128QAM | 96.5 | 96.5 | 96.5 | 95.0 | 91.5 |
| ACM / Fixed | 88 Mbps | 256QAM | 92.5 | 92.5 | 92.5 | 91.0 | 88.0 |
| ACM / Fixed | 100 Mbps | 512QAM | 89.0 | 89.5 | 89.5 | 88.0 | 84.5 |
| ACM / Fixed | 110 Mbps | 1024QAM | 85.0 | 85.5 | 85.5 | 84.0 | 80.0 |
| ACM / Fixed | 118 Mbps | 2048QAM | 81.0 | 81.0 | 81.0 | 79.5 | 76.0 |
| 13.75 / 14 MHz Channel | | | | | | | |
| ACM / Fixed | 36 Mbps | QPSK | 112.0 | 112.5 | 112.5 | 111.0 | 107.0 |
| ACM / Fixed | 82 Mbps | 16QAM | 104.0 | 103.0 | 103.0 | 101.5 | 99.5 |
| ACM / Fixed | 98 Mbps | 32QAM | 101.0 | 100.0 | 100.0 | 98.5 | 96.0 |
| ACM / Fixed | 126 Mbps | 64QAM | 98.0 | 97.5 | 97.5 | 96.0 | 93.0 |
| ACM / Fixed | 156 Mbps | 128QAM | 93.5 | 93.5 | 93.5 | 92.0 | 88.5 |
| ACM / Fixed | 180 Mbps | 256QAM | 89.5 | 90.0 | 90.0 | 88.5 | 85.0 |
| ACM / Fixed | 204 Mbps | 512QAM | 86.0 | 86.5 | 86.5 | 85.0 | 81.5 |
| ACM / Fixed | 224 Mbps | 1024QAM | 82.0 | 82.5 | 82.5 | 81.0 | 77.0 |
| ACM / Fixed | 244 Mbps | 2048QAM | 78.0 | 78.0 | 78.0 | 76.5 | 73.0 |
| ACM / Fixed | 260 Mbps | 4096QAM | 71.5 | 73.0 | 73.0 | 71.5 | 67.0 |
| 27.5 / 28 MHz Channel | | | | | | | |
| ACM / Fixed | 76 Mbps | QPSK | 109.5 | 109.5 | 109.5 | 108.0 | 105.0 |
| ACM / Fixed | 146 Mbps | 16QAM | 101.5 | 102.0 | 102.0 | 100.5 | 97.0 |
| ACM / Fixed | 198 Mbps | 32QAM | 98.0 | 97.5 | 97.5 | 96.0 | 93.0 |
| ACM / Fixed | 248 Mbps | 64QAM | 95.0 | 95.0 | 95.0 | 93.5 | 90.5 |
| ACM / Fixed | 314 Mbps | 128QAM | 90.5 | 90.5 | 90.5 | 89.0 | 85.5 |
| ACM / Fixed | 360 Mbps | 256QAM | 86.5 | 87.0 | 87.0 | 85.5 | 82.0 |
| ACM / Fixed | 410 Mbps | 512QAM | 83.5 | 83.5 | 83.5 | 82.0 | 79.0 |
| ACM / Fixed | 448 Mbps | 1024QAM | 79.5 | 80.0 | 80.0 | 78.5 | 74.5 |
| ACM / Fixed | 490 Mbps | 2048QAM | 74.5 | 75.0 | 75.0 | 73.5 | 70.0 |
| ACM / Fixed | 520 Mbps | 4096QAM | 69.5 | 70.5 | 70.5 | 69.0 | 64.5 |
| 40 MHz Channel | | | | | | | |
| ACM / Fixed | 104 Mbps | QPSK | 108.0 | 108.0 | 108.0 | 106.5 | 103.5 |
| ACM / Fixed | 202 Mbps | 16QAM | 98.0 | 100.5 | 100.5 | 99.0 | 93.5 |
| ACM / Fixed | 282 Mbps | 32QAM | 95.5 | 95.5 | 95.5 | 94.0 | 91.0 |
| ACM / Fixed | 340 Mbps | 64QAM | 92.5 | 93.5 | 93.5 | 92.0 | 88.0 |
| ACM / Fixed | 430 Mbps | 128QAM | 90.0 | 89.0 | 89.0 | 87.5 | 85.0 |
| ACM / Fixed | 500 Mbps | 256QAM | 86.5 | 85.0 | 85.0 | 83.5 | 81.5 |
| ACM / Fixed | 562 Mbps | 512QAM | 83.0 | 82.0 | 82.0 | 80.5 | 78.5 |
| ACM / Fixed | 614 Mbps | 1024QAM | 78.5 | 78.5 | 78.5 | 77.0 | 74.0 |
| ACM / Fixed | 672 Mbps | 2048QAM | 73.5 | 73.5 | 73.5 | 72.0 | 69.0 |
| ACM / Fixed | 712 Mbps | 4096QAM | 68.0 | 69.0 | 69.0 | 67.5 | 63.5 |

*[] See notes in last page

System Gain Specifications

System Gain BER=1E-6, in dB (OMT option, Typical)^[6]

| Air Link ^[9] Capacity | | Modulation | 26 GHz | 28 GHz | 32 GHz | 38 GHz | 42 GHz |
|----------------------------------|-----------|------------|--------|--------|--------|--------|--------|
| 55 / 56 MHz Channel | | | | | | | |
| ACM / Fixed | 150 Mbps | QPSK | 106.5 | 107.0 | 107.0 | 105.5 | 102.0 |
| ACM / Fixed | 300 Mbps | 16QAM | 98.5 | 99.0 | 99.0 | 97.5 | 94.0 |
| ACM / Fixed | 400 Mbps | 32QAM | 95.0 | 94.5 | 94.5 | 93.0 | 90.0 |
| ACM / Fixed | 500 Mbps | 64QAM | 92.5 | 92.5 | 92.5 | 91.0 | 87.5 |
| ACM / Fixed | 642 Mbps | 128QAM | 87.5 | 87.5 | 87.5 | 86.0 | 82.5 |
| ACM / Fixed | 742 Mbps | 256QAM | 83.5 | 83.5 | 83.5 | 82.0 | 79.0 |
| ACM / Fixed | 834 Mbps | 512QAM | 80.5 | 80.5 | 80.5 | 79.0 | 76.0 |
| ACM / Fixed | 916 Mbps | 1024QAM | 77.0 | 77.0 | 77.0 | 75.5 | 72.0 |
| ACM / Fixed | 1000 Mbps | 2048QAM | 72.5 | 72.0 | 72.0 | 70.5 | 67.5 |
| ACM / Fixed | 1062 Mbps | 4096QAM | 67.0 | 67.5 | 67.5 | 66.0 | 62.0 |
| 110 / 112 MHz Channel | | | | | | | |
| ACM / Fixed | 302 Mbps | QPSK | 103.5 | 104.0 | 104.0 | 102.5 | 99.0 |
| ACM / Fixed | 602 Mbps | 16QAM | 95.5 | 96.0 | 96.0 | 94.5 | 91.0 |
| ACM / Fixed | 800 Mbps | 32QAM | 92.0 | 91.5 | 91.5 | 90.0 | 87.0 |
| ACM / Fixed | 1002 Mbps | 64QAM | 89.5 | 89.5 | 89.5 | 88.0 | 84.5 |
| ACM / Fixed | 1282 Mbps | 128QAM | 84.5 | 84.5 | 84.5 | 83.0 | 79.5 |
| ACM / Fixed | 1482 Mbps | 256QAM | 80.5 | 80.5 | 80.5 | 79.0 | 76.0 |
| ACM / Fixed | 1668 Mbps | 512QAM | 77.5 | 77.5 | 77.5 | 76.0 | 72.5 |
| ACM / Fixed | 1832 Mbps | 1024QAM | 73.5 | 74.0 | 74.0 | 72.5 | 69.0 |
| ACM / Fixed | 2002 Mbps | 2048QAM | 69.0 | 69.0 | 69.0 | 67.5 | 64.5 |
| ACM / Fixed | 2124 Mbps | 4096QAM | 63.5 | 64.5 | 64.5 | 63.0 | 59.0 |

*[] See notes in last page

All specifications are typical values unless otherwise stated, and are subject to change without notice.

All RF specifications are referenced to the ODU flange. For Guaranteed values (over time and operational range) subtract 2 dB from Power Output, add 2dBm to Threshold (6 to 28 GHz), or 2.5 dBm (32 to 42 GHz).

Features and functionality listed in this document are no guarantee of availability, and are not an indication of GA status. For details of availability, please contact your Aviat Networks Sales Representative.

[1] When operating at extended temperatures some link performance attributes may be degraded.

[2] Capacity values are Layer 1, and MLHC estimates assume a typical IPv4 traffic mix with VLANs.

[3] Ethernet Throughput can be higher with ML-HC enabled - refer to capacity table.

[4] RSSI accuracy applies when there is no potential interferer signal present within +/- 28MHz of the Rx. Frequency.

[5] TX power for OMT option shown, for coupler option subtract 3 dB . For 13GHz, 15GHz, 28GHz, 32GHz and 38GHz bands, subtract 3.5dB for Power .

[6] Standard Threshold and System Gain specifications for OMT shown, for coupler option add 3 dB for Threshold and subtract 6 dB for System Gain. 13GHz, 15GHz, 28GHz, 32GHz and 38GHz bands to add 3.5dB for Power for Threshold and subtract 7 dB for System Gain .

[7] 48VDC PoE is available for 13 to 42 GHz bands only.

[8] 80 MHz channel is only available for U6GHz.

[9] Capacity shown is for Dual channel operation. Capacity for Single channel operation has half the value of the Capacity for Dual operation.



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