



Technical Specifications

WTM 4100

ANSI with A2C+ Operation

General Specifications

General

Frequency Bands	5 - 38 GHz	
Physical Configurations	1+0, 2+0 ACCP (via A2C+), 2+0 XPIC (via external OMT)	
Modulation and Coding	<i>Fixed or Adaptive</i>	QPSK to 4096 QAM / Hitless AM
Channel Sizes	3.75, 5, 10, 20, 25, 30, 40, 50, 60, 80 and 100 MHz	
Capacity (standard single channel)	<i>Airlink Capacity</i>	up to 918 Mbit/s*
Capacity (A2C mode)	<i>Airlink Capacity</i>	up to 1836 Mbit/s*
Encryption	256-bit AES Payload Encryption	
Design Tools	<i>Recommended Supported</i>	Aviat Design™ on aviatcloud.com (includes MIMO, Multi-band) Pathloss 5 (basic support only)

Power Supply

Voltage	<i>DC</i>	±20 to 57V
	<i>PoE</i>	48Vdc (44 to 58Vdc)
Consumption	50 Watts nominal	
	65 Watts maximum	

Physical

Size (h-w-d), including antenna interfaces	11.5in x 10.5in x 4in (295mm x 270mm x 95mm)	
Weight, including antenna interfaces	12lbs (5.5 kg)	
Operating Temperature	<i>Guaranteed</i>	-27 to +131°F (-33° to +55°C)
	<i>Extended</i>	-49 to +159°F (-45° to +65°C) ^[1]
Humidity	<i>Guaranteed</i>	100%
Altitude	<i>Guaranteed</i>	15,000 ft (4500m)

Standards Compliance

EMC	FCC CFR 47, Part 15, ICES-003	
Operation	EN 300 019-2-4, Class 4.1	
Safety	UL 60950-1, UL 60950-22, UL 62368-1	
RF Performance	<i>All Federal Frequencies</i>	FCC CFR 47, Part 101
		Manual of Regulations for Federal Radio Frequency Management
Maximum Permissible Exposure	EN 50385	
Water Ingress	IEC 60529, IP66	
Lightning Protection	Internal, compliant to IEC 61000-4-5, Class 5	
Security	FIPS 197 validated (Certificate A980)	

Transmitter / Receiver

Transmitter

Transmit Power Tolerance	<i>5-28 GHz</i>	± 2.0 dB
	<i>38 GHz</i>	± 2.5 dB
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 20dB 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>	-20 dBm
Residual (Background) Bit Error Rate		Better than 1E-13
RSSI Accuracy [4]	-30 to -70 dBm, -27 to +131°F (-33° to +55°C)	Better than ± 2.5dB
	-20 to -30 dBm, -27 to +131°F (-33° to +55°C)	Better than ± 3.5dB
	-20 to -30 dBm, -49 to +149°F (-45° to +65°C)	Better than ± 4.5dB

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, 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

Precision Time Protocol	IEEE 1588v2 TC or BC
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General Specifications

Interfaces

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

Management

Local Management	Configuration save & load
	Wireless USB 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^[8]

	Modulation	Air Link Capacity	RFC 2544 Throughput ^[2]		Throughput with MLHC ^[3]	
			64 bytes	1518 bytes	64 bytes	1518 bytes
3.75 MHz Channel						
ACM/Fixed Max System Gain	QPSK	4 Mbps	5 Mbps	4 Mbps	6 Mbps	4 Mbps
ACM/Fixed Max System Gain	16QAM	10 Mbps	12 Mbps	10 Mbps	16 Mbps	10 Mbps
ACM/Fixed Max System Gain	32QAM	12 Mbps	16 Mbps	12 Mbps	21 Mbps	12 Mbps
ACM/Fixed Max System Gain	64QAM	15 Mbps	19 Mbps	15 Mbps	24 Mbps	15 Mbps
ACM/Fixed Max System Gain	128QAM	17 Mbps	21 Mbps	17 Mbps	28 Mbps	17 Mbps
ACM/Fixed Max System Gain	256QAM	19 Mbps	24 Mbps	19 Mbps	32 Mbps	19 Mbps
ACM/Fixed Max System Gain	512QAM	22 Mbps	28 Mbps	23 Mbps	37 Mbps	23 Mbps
ACM/Fixed Max System Gain	1024QAM	25 Mbps	32 Mbps	25 Mbps	36 Mbps	25 Mbps
ACM/Fixed Max System Gain	2048QAM	27 Mbps	35 Mbps	28 Mbps	44 Mbps	28 Mbps
5 MHz Channel						
ACM/Fixed Max System Gain	QPSK	6 Mbps	7 Mbps	6 Mbps	8 Mbps	6 Mbps
ACM/Fixed Max System Gain	16QAM	14 Mbps	17 Mbps	14 Mbps	23 Mbps	14 Mbps
ACM/Fixed Max System Gain	32QAM	17 Mbps	21 Mbps	17 Mbps	28 Mbps	17 Mbps
ACM/Fixed Max System Gain	64QAM	21 Mbps	27 Mbps	21 Mbps	35 Mbps	21 Mbps
ACM/Fixed Max System Gain	128QAM	24 Mbps	31 Mbps	24 Mbps	41 Mbps	24 Mbps
ACM/Fixed Max System Gain	256QAM	27 Mbps	34 Mbps	27 Mbps	45 Mbps	27 Mbps
ACM/Fixed Max System Gain	512QAM	30 Mbps	38 Mbps	31 Mbps	51 Mbps	31 Mbps
ACM/Fixed Max System Gain	1024QAM	35 Mbps	44 Mbps	35 Mbps	50 Mbps	35 Mbps
ACM/Fixed Max System Gain	2048QAM	38 Mbps	48 Mbps	39 Mbps	61 Mbps	39 Mbps
10 MHz Channel						
ACM/Fixed Max System Gain	QPSK	13 Mbps	16 Mbps	13 Mbps	19 Mbps	13 Mbps
ACM/Fixed Max System Gain	16QAM	27 Mbps	34 Mbps	27 Mbps	45 Mbps	27 Mbps
ACM/Fixed Max System Gain	32QAM	33 Mbps	42 Mbps	34 Mbps	56 Mbps	34 Mbps
ACM/Fixed Max System Gain	64QAM	45 Mbps	57 Mbps	45 Mbps	73 Mbps	45 Mbps
ACM/Fixed Max System Gain	128QAM	50 Mbps	64 Mbps	51 Mbps	84 Mbps	51 Mbps
ACM/Fixed Max System Gain	256QAM	58 Mbps	74 Mbps	59 Mbps	98 Mbps	59 Mbps
ACM/Fixed Max System Gain	512QAM	66 Mbps	84 Mbps	67 Mbps	112 Mbps	67 Mbps
ACM/Fixed Max System Gain	1024QAM	74 Mbps	94 Mbps	75 Mbps	107 Mbps	75 Mbps
ACM/Fixed Max System Gain	2048QAM	81 Mbps	104 Mbps	82 Mbps	132 Mbps	82 Mbps
20 MHz Channel						
ACM/Fixed Max System Gain	QPSK	26 Mbps	33 Mbps	27 Mbps	40 Mbps	27 Mbps
ACM/Fixed Max System Gain	16QAM	60 Mbps	76 Mbps	61 Mbps	101 Mbps	61 Mbps
ACM/Fixed Max System Gain	32QAM	70 Mbps	89 Mbps	71 Mbps	118 Mbps	71 Mbps
ACM/Fixed Max System Gain	64QAM	88 Mbps	112 Mbps	89 Mbps	136 Mbps	89 Mbps
ACM/Fixed Max System Gain	128QAM	101 Mbps	129 Mbps	103 Mbps	147 Mbps	103 Mbps
ACM/Fixed Max System Gain	256QAM	120 Mbps	152 Mbps	121 Mbps	201 Mbps	121 Mbps
ACM/Fixed Max System Gain	512QAM	137 Mbps	175 Mbps	139 Mbps	231 Mbps	139 Mbps
ACM/Fixed Max System Gain	1024QAM	152 Mbps	193 Mbps	154 Mbps	255 Mbps	154 Mbps
ACM/Fixed Max System Gain	2048QAM	167 Mbps	213 Mbps	169 Mbps	281 Mbps	170 Mbps
ACM/Fixed Max System Gain	4096QAM	178 Mbps	226 Mbps	180 Mbps	278 Mbps	181 Mbps
25 MHz Channel						
ACM/Fixed Max System Gain	QPSK	33 Mbps	42 Mbps	34 Mbps	51 Mbps	34 Mbps
ACM/Fixed Max System Gain	16QAM	75 Mbps	96 Mbps	76 Mbps	127 Mbps	76 Mbps
ACM/Fixed Max System Gain	32QAM	87 Mbps	111 Mbps	88 Mbps	147 Mbps	89 Mbps
ACM/Fixed Max System Gain	64QAM	110 Mbps	140 Mbps	112 Mbps	165 Mbps	112 Mbps
ACM/Fixed Max System Gain	128QAM	130 Mbps	165 Mbps	131 Mbps	218 Mbps	132 Mbps
ACM/Fixed Max System Gain	256QAM	151 Mbps	192 Mbps	153 Mbps	236 Mbps	153 Mbps
ACM/Fixed Max System Gain	512QAM	172 Mbps	219 Mbps	175 Mbps	290 Mbps	175 Mbps
ACM/Fixed Max System Gain	1024QAM	192 Mbps	244 Mbps	194 Mbps	308 Mbps	194 Mbps
ACM/Fixed Max System Gain	2048QAM	211 Mbps	268 Mbps	213 Mbps	355 Mbps	214 Mbps
ACM/Fixed Max System Gain	4096QAM	225 Mbps	287 Mbps	228 Mbps	379 Mbps	229 Mbps

*[] See notes in last page

Capacity Profiles^[8]

	Modulation	Air Link Capacity	RFC 2544 Throughput ^[2]		Throughput with MLHC ^[3]	
			64 bytes	1518 bytes	64 bytes	1518 bytes
30 MHz Channel						
ACM/Fixed Max System Gain	QPSK	38 Mbps	48 Mbps	39 Mbps	64 Mbps	39 Mbps
ACM/Fixed Max System Gain	16QAM	90 Mbps	115 Mbps	91 Mbps	129 Mbps	92 Mbps
ACM/Fixed Max System Gain	32QAM	101 Mbps	129 Mbps	103 Mbps	149 Mbps	103 Mbps
ACM/Fixed Max System Gain	64QAM	135 Mbps	172 Mbps	136 Mbps	218 Mbps	136 Mbps
ACM/Fixed Max System Gain	128QAM	154 Mbps	196 Mbps	156 Mbps	245 Mbps	156 Mbps
ACM/Fixed Max System Gain	256QAM	178 Mbps	226 Mbps	180 Mbps	299 Mbps	180 Mbps
ACM/Fixed Max System Gain	512QAM	204 Mbps	260 Mbps	207 Mbps	335 Mbps	206 Mbps
ACM/Fixed Max System Gain	1024QAM	230 Mbps	293 Mbps	233 Mbps	387 Mbps	234 Mbps
ACM/Fixed Max System Gain	2048QAM	254 Mbps	323 Mbps	257 Mbps	427 Mbps	257 Mbps
ACM/Fixed Max System Gain	4096QAM	272 Mbps	346 Mbps	275 Mbps	458 Mbps	276 Mbps
40 MHz Channel						
ACM/Fixed Max System Gain	QPSK	52 Mbps	66 Mbps	52 Mbps	79 Mbps	52 Mbps
ACM/Fixed Max System Gain	16QAM	121 Mbps	154 Mbps	123 Mbps	204 Mbps	123 Mbps
ACM/Fixed Max System Gain	32QAM	137 Mbps	174 Mbps	139 Mbps	231 Mbps	139 Mbps
ACM/Fixed Max System Gain	64QAM	179 Mbps	228 Mbps	181 Mbps	279 Mbps	181 Mbps
ACM/Fixed Max System Gain	128QAM	211 Mbps	268 Mbps	213 Mbps	331 Mbps	214 Mbps
ACM/Fixed Max System Gain	256QAM	241 Mbps	307 Mbps	244 Mbps	405 Mbps	244 Mbps
ACM/Fixed Max System Gain	512QAM	276 Mbps	351 Mbps	279 Mbps	464 Mbps	279 Mbps
ACM/Fixed Max System Gain	1024QAM	311 Mbps	396 Mbps	315 Mbps	523 Mbps	316 Mbps
ACM/Fixed Max System Gain	2048QAM	343 Mbps	436 Mbps	347 Mbps	576 Mbps	347 Mbps
ACM/Fixed Max System Gain	4096QAM	368 Mbps	468 Mbps	372 Mbps	618 Mbps	372 Mbps
50 MHz Channel						
ACM/Fixed Max System Gain	QPSK	65 Mbps	83 Mbps	66 Mbps	100 Mbps	66 Mbps
ACM/Fixed Max System Gain	16QAM	151 Mbps	193 Mbps	153 Mbps	255 Mbps	154 Mbps
ACM/Fixed Max System Gain	32QAM	177 Mbps	225 Mbps	179 Mbps	297 Mbps	180 Mbps
ACM/Fixed Max System Gain	64QAM	221 Mbps	281 Mbps	224 Mbps	372 Mbps	225 Mbps
ACM/Fixed Max System Gain	128QAM	261 Mbps	333 Mbps	265 Mbps	440 Mbps	266 Mbps
ACM/Fixed Max System Gain	256QAM	302 Mbps	384 Mbps	305 Mbps	508 Mbps	307 Mbps
ACM/Fixed Max System Gain	512QAM	341 Mbps	434 Mbps	345 Mbps	573 Mbps	347 Mbps
ACM/Fixed Max System Gain	1024QAM	386 Mbps	491 Mbps	391 Mbps	648 Mbps	390 Mbps
ACM/Fixed Max System Gain	2048QAM	428 Mbps	545 Mbps	433 Mbps	721 Mbps	436 Mbps
ACM/Fixed Max System Gain	4096QAM	459 Mbps	584 Mbps	464 Mbps	770 Mbps	467 Mbps
60 MHz Channel						
ACM/Fixed Max System Gain	QPSK	77 Mbps	98 Mbps	78 Mbps	118 Mbps	78 Mbps
ACM/Fixed Max System Gain	16QAM	181 Mbps	231 Mbps	183 Mbps	305 Mbps	183 Mbps
ACM/Fixed Max System Gain	32QAM	212 Mbps	269 Mbps	214 Mbps	356 Mbps	215 Mbps
ACM/Fixed Max System Gain	64QAM	265 Mbps	337 Mbps	268 Mbps	446 Mbps	269 Mbps
ACM/Fixed Max System Gain	128QAM	313 Mbps	398 Mbps	317 Mbps	526 Mbps	317 Mbps
ACM/Fixed Max System Gain	256QAM	357 Mbps	454 Mbps	361 Mbps	600 Mbps	363 Mbps
ACM/Fixed Max System Gain	512QAM	408 Mbps	519 Mbps	413 Mbps	687 Mbps	414 Mbps
ACM/Fixed Max System Gain	1024QAM	462 Mbps	588 Mbps	467 Mbps	777 Mbps	467 Mbps
ACM/Fixed Max System Gain	2048QAM	506 Mbps	644 Mbps	512 Mbps	851 Mbps	512 Mbps
ACM/Fixed Max System Gain	4096QAM	546 Mbps	694 Mbps	552 Mbps	916 Mbps	555 Mbps
75 MHz Channel						
ACM/Fixed Max System Gain	QPSK	98 Mbps	125 Mbps	100 Mbps	150 Mbps	100 Mbps
ACM/Fixed Max System Gain	16QAM	227 Mbps	289 Mbps	230 Mbps	382 Mbps	230 Mbps
ACM/Fixed Max System Gain	32QAM	265 Mbps	338 Mbps	269 Mbps	447 Mbps	269 Mbps
ACM/Fixed Max System Gain	64QAM	332 Mbps	423 Mbps	336 Mbps	560 Mbps	336 Mbps
ACM/Fixed Max System Gain	128QAM	392 Mbps	499 Mbps	397 Mbps	660 Mbps	397 Mbps
ACM/Fixed Max System Gain	256QAM	453 Mbps	576 Mbps	458 Mbps	761 Mbps	458 Mbps
ACM/Fixed Max System Gain	512QAM	512 Mbps	651 Mbps	518 Mbps	859 Mbps	518 Mbps
ACM/Fixed Max System Gain	1024QAM	579 Mbps	737 Mbps	586 Mbps	973 Mbps	586 Mbps
ACM/Fixed Max System Gain	2048QAM	643 Mbps	818 Mbps	651 Mbps	1080 Mbps	651 Mbps
ACM/Fixed Max System Gain	4096QAM	688 Mbps	876 Mbps	696 Mbps	1160 Mbps	696 Mbps

*[] See notes in last page

Capacity Profiles ^[8]

	Modulation	Air Link Capacity	RFC 2544 Throughput ^[2]		Throughput with MLHC ^[3]	
			64 bytes	1518 bytes	64 bytes	1518 bytes
80 MHz Channel						
ACM/Fixed Max System Gain	QPSK	104 Mbps	132 Mbps	105 Mbps	158 Mbps	105 Mbps
ACM/Fixed Max System Gain	16QAM	242 Mbps	308 Mbps	245 Mbps	407 Mbps	246 Mbps
ACM/Fixed Max System Gain	32QAM	279 Mbps	355 Mbps	282 Mbps	469 Mbps	284 Mbps
ACM/Fixed Max System Gain	64QAM	352 Mbps	448 Mbps	356 Mbps	593 Mbps	358 Mbps
ACM/Fixed Max System Gain	128QAM	422 Mbps	537 Mbps	427 Mbps	710 Mbps	428 Mbps
ACM/Fixed Max System Gain	256QAM	482 Mbps	614 Mbps	488 Mbps	811 Mbps	490 Mbps
ACM/Fixed Max System Gain	512QAM	552 Mbps	702 Mbps	558 Mbps	926 Mbps	559 Mbps
ACM/Fixed Max System Gain	1024QAM	622 Mbps	792 Mbps	629 Mbps	1046 Mbps	630 Mbps
ACM/Fixed Max System Gain	2048QAM	685 Mbps	872 Mbps	694 Mbps	1151 Mbps	697 Mbps
ACM/Fixed Max System Gain	4096QAM	731 Mbps	930 Mbps	740 Mbps	1231 Mbps	740 Mbps
100 MHz Channel						
ACM/Fixed Max System Gain	QPSK	131 Mbps	167 Mbps	133 Mbps	200 Mbps	133 Mbps
ACM/Fixed Max System Gain	16QAM	303 Mbps	386 Mbps	307 Mbps	510 Mbps	307 Mbps
ACM/Fixed Max System Gain	32QAM	354 Mbps	451 Mbps	358 Mbps	596 Mbps	358 Mbps
ACM/Fixed Max System Gain	64QAM	443 Mbps	564 Mbps	448 Mbps	747 Mbps	448 Mbps
ACM/Fixed Max System Gain	128QAM	523 Mbps	666 Mbps	530 Mbps	881 Mbps	530 Mbps
ACM/Fixed Max System Gain	256QAM	604 Mbps	768 Mbps	611 Mbps	1014 Mbps	611 Mbps
ACM/Fixed Max System Gain	512QAM	683 Mbps	869 Mbps	691 Mbps	1146 Mbps	691 Mbps
ACM/Fixed Max System Gain	1024QAM	772 Mbps	983 Mbps	782 Mbps	1298 Mbps	782 Mbps
ACM/Fixed Max System Gain	2048QAM	857 Mbps	1091 Mbps	868 Mbps	1440 Mbps	868 Mbps
ACM/Fixed Max System Gain	4096QAM	918 Mbps	1168 Mbps	929 Mbps	1546 Mbps	929 Mbps

*[] See notes in last page

Transmitter Specifications

System

	5 GHz	L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	10 GHz
Frequency Range (GHz)	4.4-5.0	5.927 - 6.420 6.430 - 7.125	6.875-7.125	7.125 - 7.9	7.725 - 8.5	10.15-10.68
TR-Spacings Supported (MHz)	300, 312	150, 180, 252.04, 340, 345	150	150, 160, 175, 300	300, 310, 360	65
Standard	NTIA Red Book	FCC Part 101 SRSP 306.4 & 305.9	FCC Part 74 & 101	SRSP 307.1 NTIA Red Book	SRSP 307.7 NTIA Red Book	FCC Part 101 SRSP 310.5

Antenna Interface

Waveguide Type	N-Type	WR137	WR137	WR112	WR112	WR90
Flange Type	Female	UDR70	UDR70	UDR80	UDR80	UDR100
Mating Flange Type	Male	PDR70	PDR70	PDR84	PDR84	PDR100

Transmitter Power Output Specifications, in dBm (Nominal) / A2C+ Transmit Power backoff ^[7]

Modulation	5 GHz	L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	10 GHz
QPSK	32.0 / -5.0	32.0 / -5.0	32.0 / -5.0	32.0 / -5.0	31.0 / -5.5	27.5 / -4.0
16QAM	31.5 / -5.5	31.5 / -6.0	31.5 / -6.0	31.5 / -6.0	30.0 / -6.0	27.5 / -5.5
32QAM	31.5 / -6.0	31.5 / -6.5	31.5 / -6.5	31.5 / -6.5	30.0 / -6.5	27.5 / -6.0
64QAM	30.5 / -5.5	30.5 / -6.0	30.5 / -6.0	30.5 / -6.0	29.0 / -6.0	27.5 / -6.5
128QAM	30.0 / -5.5	30.0 / -6.0	30.0 / -6.0	30.0 / -6.0	28.5 / -6.0	27.5 / -7.0
256QAM	29.5 / -5.5	29.5 / -6.0	29.5 / -6.0	29.5 / -6.0	28.0 / -6.0	27.5 / -7.5
512QAM	29.0 / -5.0	29.0 / -5.5	29.0 / -5.5	29.0 / -5.5	27.5 / -5.5	27.0 / -7.0
1024QAM	28.0 / -5.0	28.0 / -5.5	28.0 / -5.5	28.0 / -5.5	26.5 / -5.5	26.0 / -7.0
2048QAM	27.0 / -4.0	27.0 / -4.5	27.0 / -4.5	27.0 / -4.5	25.5 / -4.5	25.0 / -6.0
4096QAM	26.0 / -3.0	26.0 / -3.5	26.0 / -3.5	26.0 / -3.5	24.5 / -3.5	24.0 / -5.0
Pmin for channels ≤ 60MHz	12	12	12	12	11	7.5
Pmin for ch. ≥ 80MHz and A2C+ all	17	17	17	17	16	12.5

Receiver Specifications

Receiver Threshold BER=1E-6 , in dBm (Typical)

Air Link Capacity	Modulation	5 GHz	L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	10 GHz
3.75 MHz Channel							
ACM / Fixed	4 Mbps	QPSK					-98.5
ACM / Fixed	10 Mbps	16QAM					-90.0
ACM / Fixed	12 Mbps	32QAM					-87.0
ACM / Fixed	15 Mbps	64QAM					-84.5
ACM / Fixed	17 Mbps	128QAM					-82.5
ACM / Fixed	19 Mbps	256QAM					-80.0
ACM / Fixed	22 Mbps	512QAM					-75.5
ACM / Fixed	25 Mbps	1024QAM					-72.5
ACM / Fixed	27 Mbps	2048QAM					-69.0

*[] See notes in last page

Receiver Specifications

Receiver Threshold BER=1E-6 , in dBm (Typical)

	Air Link Capacity	Modulation	5 GHz	L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	10 GHz
5 MHz Channel								
ACM / Fixed	6 Mbps	QPSK						-97.0
ACM / Fixed	14 Mbps	16QAM						-89.0
ACM / Fixed	17 Mbps	32QAM						-85.5
ACM / Fixed	21 Mbps	64QAM						-82.5
ACM / Fixed	24 Mbps	128QAM						-80.0
ACM / Fixed	27 Mbps	256QAM						-78.0
ACM / Fixed	30 Mbps	512QAM						-75.0
ACM / Fixed	35 Mbps	1024QAM						-71.0
ACM / Fixed	38 Mbps	2048QAM						-68.0
10 MHz Channel ^[5]								
ACM / Fixed	13 Mbps	QPSK	-95.5	-95.5	-95.5	-95.0	-95.5	
ACM / Fixed	27 Mbps	16QAM	-89.0	-89.0	-89.0	-88.5	-89.0	
ACM / Fixed	33 Mbps	32QAM	-85.5	-85.5	-85.5	-85.0	-85.5	
ACM / Fixed	45 Mbps	64QAM	-81.5	-81.5	-81.5	-81.0	-81.5	
ACM / Fixed	50 Mbps	128QAM	-80.0	-80.0	-80.0	-79.5	-80.0	
ACM / Fixed	58 Mbps	256QAM	-76.5	-76.5	-76.5	-76.0	-76.5	
ACM / Fixed	66 Mbps	512QAM	-73.0	-73.0	-73.0	-72.5	-73.0	
ACM / Fixed	74 Mbps	1024QAM	-69.5	-69.5	-69.5	-69.0	-69.5	
ACM / Fixed	81 Mbps	2048QAM	-66.5	-66.5	-66.5	-66.0	-66.5	
20 MHz Channel								
ACM / Fixed	26 Mbps	QPSK	-92.5	-92.5		-92.0	-92.5	
ACM / Fixed	60 Mbps	16QAM	-84.5	-84.5		-84.0	-84.5	
ACM / Fixed	70 Mbps	32QAM	-82.0	-82.0		-81.5	-82.0	
ACM / Fixed	88 Mbps	64QAM	-79.5	-79.5		-79.0	-79.5	
ACM / Fixed	101 Mbps	128QAM	-77.0	-77.0		-76.5	-77.0	
ACM / Fixed	120 Mbps	256QAM	-73.5	-73.5		-73.0	-73.5	
ACM / Fixed	137 Mbps	512QAM	-69.5	-69.5		-69.0	-69.5	
ACM / Fixed	152 Mbps	1024QAM	-66.5	-66.5		-66.0	-66.5	
ACM / Fixed	167 Mbps	2048QAM	-63.5	-63.5		-63.0	-63.5	
ACM / Fixed	178 Mbps	4096QAM	-60.0	-60.0		-59.5	-60.0	
25 MHz Channel								
ACM / Fixed	33 Mbps	QPSK			-91.5			
ACM / Fixed	75 Mbps	16QAM			-83.5			
ACM / Fixed	87 Mbps	32QAM			-81.0			
ACM / Fixed	110 Mbps	64QAM			-78.5			
ACM / Fixed	130 Mbps	128QAM			-75.5			
ACM / Fixed	151 Mbps	256QAM			-72.0			
ACM / Fixed	172 Mbps	512QAM			-69.0			
ACM / Fixed	192 Mbps	1024QAM			-66.0			
ACM / Fixed	211 Mbps	2048QAM			-62.5			
ACM / Fixed	225 Mbps	4096QAM			-59.0			

*[] See notes in last page

Receiver Specifications

Receiver Threshold BER=1E-6 , in dBm (Typical)

Air Link Capacity		Modulation	5 GHz	L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	10 GHz
30 MHz Channel								
ACM / Fixed	38 Mbps	QPSK	-91.5	-91.5		-91.0	-91.5	
ACM / Fixed	90 Mbps	16QAM	-83.0	-83.0		-82.5	-83.0	
ACM / Fixed	101 Mbps	32QAM	-81.0	-81.0		-80.5	-81.0	
ACM / Fixed	135 Mbps	64QAM	-77.5	-77.5		-77.0	-77.5	
ACM / Fixed	154 Mbps	128QAM	-75.5	-75.5		-75.0	-75.5	
ACM / Fixed	178 Mbps	256QAM	-72.0	-72.0		-71.5	-72.0	
ACM / Fixed	204 Mbps	512QAM	-68.5	-68.5		-68.0	-68.5	
ACM / Fixed	230 Mbps	1024QAM	-65.0	-65.0		-64.5	-65.0	
ACM / Fixed	254 Mbps	2048QAM	-62.0	-62.0		-61.5	-62.0	
ACM / Fixed	272 Mbps	4096QAM	-58.0	-58.0		-57.5	-58.0	
40 MHz Channel								
ACM / Fixed	52 Mbps	QPSK	-90.5			-90.0	-90.5	
ACM / Fixed	121 Mbps	16QAM	-82.0			-81.5	-82.0	
ACM / Fixed	137 Mbps	32QAM	-80.0			-79.5	-80.0	
ACM / Fixed	179 Mbps	64QAM	-76.5			-76.0	-76.5	
ACM / Fixed	211 Mbps	128QAM	-74.0			-73.5	-74.0	
ACM / Fixed	241 Mbps	256QAM	-71.0			-70.5	-71.0	
ACM / Fixed	276 Mbps	512QAM	-67.5			-67.0	-67.5	
ACM / Fixed	311 Mbps	1024QAM	-64.0			-63.5	-64.0	
ACM / Fixed	343 Mbps	2048QAM	-60.5			-60.0	-60.5	
ACM / Fixed	368 Mbps	4096QAM	-57.0			-56.5	-57.0	
50 MHz Channel								
ACM / Fixed	65 Mbps	QPSK			-89.5			
ACM / Fixed	151 Mbps	16QAM			-81.0			
ACM / Fixed	177 Mbps	32QAM			-78.5			
ACM / Fixed	221 Mbps	64QAM			-76.0			
ACM / Fixed	261 Mbps	128QAM			-73.0			
ACM / Fixed	302 Mbps	256QAM			-69.5			
ACM / Fixed	341 Mbps	512QAM			-66.5			
ACM / Fixed	386 Mbps	1024QAM			-63.0			
ACM / Fixed	428 Mbps	2048QAM			-59.5			
ACM / Fixed	459 Mbps	4096QAM			-56.0			
60 MHz Channel ^[6]								
ACM / Fixed	77 Mbps	QPSK		-88.5				
ACM / Fixed	181 Mbps	16QAM		-80.0				
ACM / Fixed	212 Mbps	32QAM		-77.5				
ACM / Fixed	265 Mbps	64QAM		-75.0				
ACM / Fixed	313 Mbps	128QAM		-72.0				
ACM / Fixed	357 Mbps	256QAM		-69.5				
ACM / Fixed	408 Mbps	512QAM		-66.0				
ACM / Fixed	462 Mbps	1024QAM		-62.5				
ACM / Fixed	506 Mbps	2048QAM		-59.5				
ACM / Fixed	546 Mbps	4096QAM		-55.5				

*[] See notes in last page

System Gain Specifications^[8]

System Gain BER=1E-6, in dB (Typical)

	Air Link Capacity	Modulation	5 GHz	L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	10 GHz
3.75 MHz Channel								
ACM / Fixed	4 Mbps	QPSK						126.0
ACM / Fixed	10 Mbps	16QAM						117.5
ACM / Fixed	12 Mbps	32QAM						114.5
ACM / Fixed	15 Mbps	64QAM						112.0
ACM / Fixed	17 Mbps	128QAM						110.0
ACM / Fixed	19 Mbps	256QAM						107.5
ACM / Fixed	22 Mbps	512QAM						102.5
ACM / Fixed	25 Mbps	1024QAM						98.5
ACM / Fixed	27 Mbps	2048QAM						94.0
5 MHz Channel								
ACM / Fixed	6 Mbps	QPSK						124.5
ACM / Fixed	14 Mbps	16QAM						116.5
ACM / Fixed	17 Mbps	32QAM						113.0
ACM / Fixed	21 Mbps	64QAM						110.0
ACM / Fixed	24 Mbps	128QAM						107.5
ACM / Fixed	27 Mbps	256QAM						105.5
ACM / Fixed	30 Mbps	512QAM						102.0
ACM / Fixed	35 Mbps	1024QAM						97.0
ACM / Fixed	38 Mbps	2048QAM						93.0
10 MHz Channel^[5]								
ACM / Fixed	13 Mbps	QPSK	127.5	127.5	127.5	127.0	126.5	
ACM / Fixed	27 Mbps	16QAM	120.5	120.5	120.5	120.0	119.0	
ACM / Fixed	33 Mbps	32QAM	117.0	117.0	117.0	116.5	115.5	
ACM / Fixed	45 Mbps	64QAM	112.0	112.0	112.0	111.5	110.5	
ACM / Fixed	50 Mbps	128QAM	110.0	110.0	110.0	109.5	108.5	
ACM / Fixed	58 Mbps	256QAM	106.0	106.0	106.0	105.5	104.5	
ACM / Fixed	66 Mbps	512QAM	102.0	102.0	102.0	101.5	100.5	
ACM / Fixed	74 Mbps	1024QAM	97.5	97.5	97.5	97.0	96.0	
ACM / Fixed	81 Mbps	2048QAM	93.5	93.5	93.5	93.0	92.0	
20 MHz Channel								
ACM / Fixed	26 Mbps	QPSK	124.5	124.5		124.0	123.5	
ACM / Fixed	60 Mbps	16QAM	116.0	116.0		115.5	114.5	
ACM / Fixed	70 Mbps	32QAM	113.5	113.5		113.0	112.0	
ACM / Fixed	88 Mbps	64QAM	110.0	110.0		109.5	108.5	
ACM / Fixed	101 Mbps	128QAM	107.0	107.0		106.5	105.5	
ACM / Fixed	120 Mbps	256QAM	103.0	103.0		102.5	101.5	
ACM / Fixed	137 Mbps	512QAM	98.5	98.5		98.0	97.0	
ACM / Fixed	152 Mbps	1024QAM	94.5	94.5		94.0	93.0	
ACM / Fixed	167 Mbps	2048QAM	90.5	90.5		90.0	89.0	
ACM / Fixed	178 Mbps	4096QAM	86.0	86.0		85.5	84.5	
25 MHz Channel								
ACM / Fixed	33 Mbps	QPSK			123.5			
ACM / Fixed	75 Mbps	16QAM			115.0			
ACM / Fixed	87 Mbps	32QAM			112.5			
ACM / Fixed	110 Mbps	64QAM			109.0			
ACM / Fixed	130 Mbps	128QAM			105.5			
ACM / Fixed	151 Mbps	256QAM			101.5			
ACM / Fixed	172 Mbps	512QAM			98.0			
ACM / Fixed	192 Mbps	1024QAM			94.0			
ACM / Fixed	211 Mbps	2048QAM			89.5			
ACM / Fixed	225 Mbps	4096QAM			85.0			

*[] See notes in last page

System Gain Specifications^[8]

System Gain BER=1E-6, in dB (Typical)

	Air Link Capacity	Modulation	5 GHz	L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	10 GHz
30 MHz Channel								
ACM / Fixed	38 Mbps	QPSK	123.5	123.5		123.0	122.5	
ACM / Fixed	90 Mbps	16QAM	114.5	114.5		114.0	113.0	
ACM / Fixed	101 Mbps	32QAM	112.5	112.5		112.0	111.0	
ACM / Fixed	135 Mbps	64QAM	108.0	108.0		107.5	106.5	
ACM / Fixed	154 Mbps	128QAM	105.5	105.5		105.0	104.0	
ACM / Fixed	178 Mbps	256QAM	101.5	101.5		101.0	100.0	
ACM / Fixed	204 Mbps	512QAM	97.5	97.5		97.0	96.0	
ACM / Fixed	230 Mbps	1024QAM	93.0	93.0		92.5	91.5	
ACM / Fixed	254 Mbps	2048QAM	89.0	89.0		88.5	87.5	
ACM / Fixed	272 Mbps	4096QAM	84.0	84.0		83.5	82.5	
40 MHz Channel								
ACM / Fixed	52 Mbps	QPSK	122.5			122.0	121.5	
ACM / Fixed	121 Mbps	16QAM	113.5			113.0	112.0	
ACM / Fixed	137 Mbps	32QAM	111.5			111.0	110.0	
ACM / Fixed	179 Mbps	64QAM	107.0			106.5	105.5	
ACM / Fixed	211 Mbps	128QAM	104.0			103.5	102.5	
ACM / Fixed	241 Mbps	256QAM	100.5			100.0	99.0	
ACM / Fixed	276 Mbps	512QAM	96.5			96.0	95.0	
ACM / Fixed	311 Mbps	1024QAM	92.0			91.5	90.5	
ACM / Fixed	343 Mbps	2048QAM	87.5			87.0	86.0	
ACM / Fixed	368 Mbps	4096QAM	83.0			82.5	81.5	
50 MHz Channel								
ACM / Fixed	65 Mbps	QPSK			121.5			
ACM / Fixed	151 Mbps	16QAM			112.5			
ACM / Fixed	177 Mbps	32QAM			110.0			
ACM / Fixed	221 Mbps	64QAM			106.5			
ACM / Fixed	261 Mbps	128QAM			103.0			
ACM / Fixed	302 Mbps	256QAM			99.0			
ACM / Fixed	341 Mbps	512QAM			95.5			
ACM / Fixed	386 Mbps	1024QAM			91.0			
ACM / Fixed	428 Mbps	2048QAM			86.5			
ACM / Fixed	459 Mbps	4096QAM			82.0			
60 MHz Channel^[6]								
ACM / Fixed	77 Mbps	QPSK		120.5				
ACM / Fixed	181 Mbps	16QAM		111.5				
ACM / Fixed	212 Mbps	32QAM		109.0				
ACM / Fixed	265 Mbps	64QAM		105.5				
ACM / Fixed	313 Mbps	128QAM		102.0				
ACM / Fixed	357 Mbps	256QAM		99.0				
ACM / Fixed	408 Mbps	512QAM		95.0				
ACM / Fixed	462 Mbps	1024QAM		90.5				
ACM / Fixed	506 Mbps	2048QAM		86.5				
ACM / Fixed	546 Mbps	4096QAM		81.5				

*[] 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	12.70 - 13.15	14.4 - 15.35	17.7 - 19.7	21.2 - 23.6
TR-Spacings Supported (MHz)	490, 500, 520, 530	225, 266	475, 640	1560, 340	1200
Standard	FCC Part 101 SRSP 310.7	Part 74 & 101 SRSP 312.7	SRSP 314.5 NTIA Red Book	FCC Part 101 SRSP 317.8	FCC Part 101 SRSP 321.8

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, in dBm (Nominal) / A2C+ Transmit Power backoff^[7]

Modulation	11 GHz	13 GHz	15 GHz	18 GHz	23 GHz
QPSK	29.5 / -2.5	26.5 / -5.5	26.5 / -5.5	23.5 / -5.5	23.5 / -5.5
16QAM	29.5 / -4.0	24.5 / -5.0	24.5 / -5.0	21.5 / -5.0	21.5 / -5.0
32QAM	29.5 / -4.5	24.5 / -5.5	24.5 / -5.5	21.5 / -5.5	21.5 / -5.5
64QAM	29.5 / -5.0	24.5 / -6.0	24.5 / -6.0	21.5 / -6.0	21.5 / -6.0
128QAM	29.5 / -5.5	24.0 / -6.0	24.0 / -6.0	21.0 / -6.0	21.0 / -6.0
256QAM	29.5 / -6.0	23.5 / -6.0	23.5 / -6.0	20.5 / -6.0	20.5 / -6.0
512QAM	29.0 / -5.5	23.0 / -5.5	23.0 / -5.5	20.0 / -5.5	20.0 / -5.5
1024QAM	28.0 / -5.5	22.0 / -5.5	22.0 / -5.5	19.0 / -5.5	19.0 / -5.5
2048QAM	27.0 / -4.5	21.0 / -4.5	21.0 / -4.5	18.0 / -4.5	18.0 / -4.5
4096QAM	26.0 / -3.5	20.0 / -3.5	20.0 / -3.5	17.0 / -3.5	17.0 / -3.5
Pmin for channels ≤ 60MHz	9.5	6.5	6.5	3.5	3.5
Pmin for ch. ≥ 80MHz and A2C+ all	14.5	11.5	11.5	8.5	8.5

Receiver Specifications

Receiver Threshold BER=1E-6 , in dBm (Typical)

Air Link Capacity	Modulation	11 GHz	13 GHz	15 GHz	18 GHz	23 GHz
10 MHz Channel^[5]						
ACM / Fixed 13 Mbps	QPSK	-95.0	-94.5	-95.0	-94.5	-94.5
ACM / Fixed 27 Mbps	16QAM	-88.5	-88.0	-88.5	-88.0	-88.0
ACM / Fixed 33 Mbps	32QAM	-85.0	-84.5	-85.0	-84.5	-84.0
ACM / Fixed 45 Mbps	64QAM	-81.0	-80.5	-81.0	-80.5	-80.5
ACM / Fixed 50 Mbps	128QAM	-79.0	-78.5	-79.0	-78.5	-78.5
ACM / Fixed 58 Mbps	256QAM	-75.5	-75.0	-75.5	-75.0	-75.0
ACM / Fixed 66 Mbps	512QAM	-72.5	-72.0	-72.5	-72.0	-71.5
ACM / Fixed 74 Mbps	1024QAM	-69.0	-68.5	-69.0	-68.5	-68.0
ACM / Fixed 81 Mbps	2048QAM	-65.5	-65.0	-65.5	-65.0	-64.5
20 MHz Channel						
ACM / Fixed 26 Mbps	QPSK	-91.5		-91.5	-91.0	-91.5
ACM / Fixed 60 Mbps	16QAM	-83.5		-84.0	-83.5	-83.5
ACM / Fixed 70 Mbps	32QAM	-81.5		-81.5	-81.0	-81.0
ACM / Fixed 88 Mbps	64QAM	-78.5		-78.5	-78.0	-78.5
ACM / Fixed 101 Mbps	128QAM	-76.0		-76.5	-76.0	-76.0
ACM / Fixed 120 Mbps	256QAM	-72.5		-72.5	-72.0	-72.0
ACM / Fixed 137 Mbps	512QAM	-69.0		-69.0	-68.5	-68.5
ACM / Fixed 152 Mbps	1024QAM	-66.0		-66.0	-65.5	-65.5
ACM / Fixed 167 Mbps	2048QAM	-63.0		-63.0	-62.5	-62.0
ACM / Fixed 178 Mbps	4096QAM	-59.0		-59.5	-59.0	-58.0

*[] See notes in last page

Receiver Specifications

Receiver Threshold BER=1E-6 , in dBm (Typical)

Air Link Capacity Modulation			11 GHz	13 GHz	15 GHz	18 GHz	23 GHz
25 MHz Channel							
ACM / Fixed	33 Mbps	QPSK		-90.0			
ACM / Fixed	75 Mbps	16QAM		-82.5			
ACM / Fixed	87 Mbps	32QAM		-80.0			
ACM / Fixed	110 Mbps	64QAM		-77.5			
ACM / Fixed	130 Mbps	128QAM		-74.5			
ACM / Fixed	151 Mbps	256QAM		-71.0			
ACM / Fixed	172 Mbps	512QAM		-68.0			
ACM / Fixed	192 Mbps	1024QAM		-64.5			
ACM / Fixed	211 Mbps	2048QAM		-61.5			
ACM / Fixed	225 Mbps	4096QAM		-58.0			
30 MHz Channel							
ACM / Fixed	38 Mbps	QPSK	-91.0		-91.0	-90.5	-90.5
ACM / Fixed	90 Mbps	16QAM	-82.5		-82.5	-82.0	-82.0
ACM / Fixed	101 Mbps	32QAM	-80.5		-80.5	-80.0	-80.0
ACM / Fixed	135 Mbps	64QAM	-77.0		-77.0	-76.5	-76.5
ACM / Fixed	154 Mbps	128QAM	-74.5		-74.5	-74.0	-74.0
ACM / Fixed	178 Mbps	256QAM	-71.5		-71.5	-71.0	-71.0
ACM / Fixed	204 Mbps	512QAM	-68.0		-68.0	-67.5	-67.5
ACM / Fixed	230 Mbps	1024QAM	-64.0		-64.5	-64.0	-63.5
ACM / Fixed	254 Mbps	2048QAM	-61.0		-61.0	-60.5	-60.0
ACM / Fixed	272 Mbps	4096QAM	-57.5		-57.5	-57.0	-56.0
40 MHz Channel							
ACM / Fixed	52 Mbps	QPSK	-89.5		-90.0	-89.5	-89.5
ACM / Fixed	121 Mbps	16QAM	-81.5		-81.5	-81.0	-81.0
ACM / Fixed	137 Mbps	32QAM	-79.0		-79.5	-79.0	-78.5
ACM / Fixed	179 Mbps	64QAM	-76.0		-76.0	-75.5	-75.5
ACM / Fixed	211 Mbps	128QAM	-73.0		-73.0	-72.5	-72.5
ACM / Fixed	241 Mbps	256QAM	-70.0		-70.0	-69.5	-69.5
ACM / Fixed	276 Mbps	512QAM	-66.5		-66.5	-66.0	-66.0
ACM / Fixed	311 Mbps	1024QAM	-63.0		-63.5	-63.0	-62.5
ACM / Fixed	343 Mbps	2048QAM	-59.5		-60.0	-59.5	-59.0
ACM / Fixed	368 Mbps	4096QAM	-56.0		-56.0	-55.5	-55.0
50 MHz Channel							
ACM / Fixed	65 Mbps	QPSK		-88.0	-88.5	-88.0	-88.0
ACM / Fixed	151 Mbps	16QAM		-80.0	-80.5	-80.0	-80.0
ACM / Fixed	177 Mbps	32QAM		-77.5	-78.0	-77.5	-77.5
ACM / Fixed	221 Mbps	64QAM		-75.0	-75.5	-75.0	-74.5
ACM / Fixed	261 Mbps	128QAM		-72.0	-72.5	-72.0	-72.0
ACM / Fixed	302 Mbps	256QAM		-68.5	-69.0	-68.5	-68.5
ACM / Fixed	341 Mbps	512QAM		-65.5	-66.0	-65.5	-65.5
ACM / Fixed	386 Mbps	1024QAM		-62.0	-62.5	-62.0	-62.0
ACM / Fixed	428 Mbps	2048QAM		-58.0	-58.5	-58.0	-58.0
ACM / Fixed	459 Mbps	4096QAM		-55.0	-55.5	-55.0	-54.0
60 MHz Channel							
ACM / Fixed	77 Mbps	QPSK	-88.0				
ACM / Fixed	181 Mbps	16QAM	-79.5				
ACM / Fixed	212 Mbps	32QAM	-77.0				
ACM / Fixed	265 Mbps	64QAM	-74.5				
ACM / Fixed	313 Mbps	128QAM	-71.5				
ACM / Fixed	357 Mbps	256QAM	-68.5				
ACM / Fixed	408 Mbps	512QAM	-65.5				
ACM / Fixed	462 Mbps	1024QAM	-61.5				
ACM / Fixed	506 Mbps	2048QAM	-58.5				
ACM / Fixed	546 Mbps	4096QAM	-55.0				

*[] See notes in last page

Receiver Specifications

Receiver Threshold BER=1E-6 , in dBm (Typical)

Air Link Capacity Modulation			11 GHz	13 GHz	15 GHz	18 GHz	23 GHz
80 MHz Channel							
ACM / Fixed	104 Mbps	QPSK	-86.5			-86.0	
ACM / Fixed	242 Mbps	16QAM	-78.5			-78.0	
ACM / Fixed	279 Mbps	32QAM	-76.0			-75.5	
ACM / Fixed	352 Mbps	64QAM	-73.5			-73.0	
ACM / Fixed	422 Mbps	128QAM	-70.0			-69.5	
ACM / Fixed	482 Mbps	256QAM	-67.0			-66.5	
ACM / Fixed	552 Mbps	512QAM	-63.5			-63.5	
ACM / Fixed	622 Mbps	1024QAM	-60.5			-60.0	
ACM / Fixed	685 Mbps	2048QAM	-56.5			-56.5	
ACM / Fixed	731 Mbps	4096QAM	-53.5			-53.0	

*[] See notes in last page

Receiver Specifications

Receiver Threshold BER=1E-6 , in dBm (Typical)

	Air Link Capacity	Modulation	13 GHz
7 MHz Channel			
ACM / Fixed	9 Mbps	QPSK	-95.5
ACM / Fixed	18 Mbps	16QAM	-90.0
ACM / Fixed	24 Mbps	32QAM	-85.0
ACM / Fixed	30 Mbps	64QAM	-83.0
ACM / Fixed	38 Mbps	128QAM	-79.0
ACM / Fixed	44 Mbps	256QAM	-75.5
ACM / Fixed	50 Mbps	512QAM	-72.5
ACM / Fixed	55 Mbps	1024QAM	-69.5
ACM / Fixed	59 Mbps	2048QAM	-66.5
13.75 / 14 MHz Channel			
ACM / Fixed	18 Mbps	QPSK	-93.0
ACM / Fixed	41 Mbps	16QAM	-86.0
ACM / Fixed	49 Mbps	32QAM	-82.5
ACM / Fixed	62 Mbps	64QAM	-80.0
ACM / Fixed	77 Mbps	128QAM	-76.5
ACM / Fixed	89 Mbps	256QAM	-73.0
ACM / Fixed	102 Mbps	512QAM	-69.5
ACM / Fixed	112 Mbps	1024QAM	-67.0
ACM / Fixed	122 Mbps	2048QAM	-63.5
ACM / Fixed	130 Mbps	4096QAM	-60.0
27.5 / 28 MHz Channel			
ACM / Fixed	38 Mbps	QPSK	-90.5
ACM / Fixed	73 Mbps	16QAM	-84.5
ACM / Fixed	99 Mbps	32QAM	-80.0
ACM / Fixed	124 Mbps	64QAM	-77.5
ACM / Fixed	157 Mbps	128QAM	-73.0
ACM / Fixed	179 Mbps	256QAM	-70.0
ACM / Fixed	204 Mbps	512QAM	-66.5
ACM / Fixed	224 Mbps	1024QAM	-64.0
ACM / Fixed	245 Mbps	2048QAM	-60.5
ACM / Fixed	260 Mbps	4096QAM	-57.5
55 / 56 MHz Channel			
ACM / Fixed	75 Mbps	QPSK	-87.5
ACM / Fixed	150 Mbps	16QAM	-81.5
ACM / Fixed	200 Mbps	32QAM	-77.0
ACM / Fixed	249 Mbps	64QAM	-75.0
ACM / Fixed	319 Mbps	128QAM	-70.0
ACM / Fixed	369 Mbps	256QAM	-66.5
ACM / Fixed	415 Mbps	512QAM	-63.5
ACM / Fixed	458 Mbps	1024QAM	-61.0
ACM / Fixed	500 Mbps	2048QAM	-57.5
ACM / Fixed	531 Mbps	4096QAM	-54.5

*[] See notes in last page

Receiver Specifications

Receiver Thershold BER=1E-6 , in dBm (Typical)

	Air Link Capacity	Modulation	13 GHz
110 / 112 MHz Channel			
ACM / Fixed	151 Mbps	QPSK	-84.5
ACM / Fixed	301 Mbps	16QAM	-78.5
ACM / Fixed	400 Mbps	32QAM	-74.0
ACM / Fixed	499 Mbps	64QAM	-72.0
ACM / Fixed	639 Mbps	128QAM	-67.0
ACM / Fixed	738 Mbps	256QAM	-63.5
ACM / Fixed	830 Mbps	512QAM	-60.5
ACM / Fixed	916 Mbps	1024QAM	-58.0
ACM / Fixed	1001 Mbps	2048QAM	-54.5
ACM / Fixed	1062 Mbps	4096QAM	-51.5

*[] See notes in last page

System Gain Specifications^[8]

System Gain BER=1E-6 , in dB (Typical)

	Air Link Capacity	Modulation	11 GHz	13 GHz	15 GHz	18 GHz	23 GHz
10 MHz Channel^[5]							
ACM / Fixed	13 Mbps	QPSK	124.5	121.0	121.5	118.0	118.0
ACM / Fixed	27 Mbps	16QAM	118.0	112.5	113.0	109.5	109.5
ACM / Fixed	33 Mbps	32QAM	114.5	109.0	109.5	106.0	105.5
ACM / Fixed	45 Mbps	64QAM	110.5	105.0	105.5	102.0	102.0
ACM / Fixed	50 Mbps	128QAM	108.5	102.5	103.0	99.5	99.5
ACM / Fixed	58 Mbps	256QAM	105.0	98.5	99.0	95.5	95.5
ACM / Fixed	66 Mbps	512QAM	101.5	95.0	95.5	92.0	91.5
ACM / Fixed	74 Mbps	1024QAM	97.0	90.5	91.0	87.5	87.0
ACM / Fixed	81 Mbps	2048QAM	92.5	86.0	86.5	83.0	82.5
20 MHz Channel							
ACM / Fixed	26 Mbps	QPSK	121.0		118.0	114.5	115.0
ACM / Fixed	60 Mbps	16QAM	113.0		108.5	105.0	105.0
ACM / Fixed	70 Mbps	32QAM	111.0		106.0	102.5	102.5
ACM / Fixed	88 Mbps	64QAM	108.0		103.0	99.5	100.0
ACM / Fixed	101 Mbps	128QAM	105.5		100.5	97.0	97.0
ACM / Fixed	120 Mbps	256QAM	102.0		96.0	92.5	92.5
ACM / Fixed	137 Mbps	512QAM	98.0		92.0	88.5	88.5
ACM / Fixed	152 Mbps	1024QAM	94.0		88.0	84.5	84.5
ACM / Fixed	167 Mbps	2048QAM	90.0		84.0	80.5	80.0
ACM / Fixed	178 Mbps	4096QAM	85.0		79.5	76.0	75.0
25 MHz Channel							
ACM / Fixed	33 Mbps	QPSK		116.5			
ACM / Fixed	75 Mbps	16QAM		107.0			
ACM / Fixed	87 Mbps	32QAM		104.5			
ACM / Fixed	110 Mbps	64QAM		102.0			
ACM / Fixed	130 Mbps	128QAM		98.5			
ACM / Fixed	151 Mbps	256QAM		94.5			
ACM / Fixed	172 Mbps	512QAM		91.0			
ACM / Fixed	192 Mbps	1024QAM		86.5			
ACM / Fixed	211 Mbps	2048QAM		82.5			
ACM / Fixed	225 Mbps	4096QAM		78.0			
30 MHz Channel							
ACM / Fixed	38 Mbps	QPSK	120.5		117.5	114.0	114.0
ACM / Fixed	90 Mbps	16QAM	112.0		107.0	103.5	103.5
ACM / Fixed	101 Mbps	32QAM	110.0		105.0	101.5	101.5
ACM / Fixed	135 Mbps	64QAM	106.5		101.5	98.0	98.0
ACM / Fixed	154 Mbps	128QAM	104.0		98.5	95.0	95.0
ACM / Fixed	178 Mbps	256QAM	101.0		95.0	91.5	91.5
ACM / Fixed	204 Mbps	512QAM	97.0		91.0	87.5	87.5
ACM / Fixed	230 Mbps	1024QAM	92.0		86.5	83.0	82.5
ACM / Fixed	254 Mbps	2048QAM	88.0		82.0	78.5	78.0
ACM / Fixed	272 Mbps	4096QAM	83.5		77.5	74.0	73.0

*[] See notes in last page

System Gain Specifications^[8]

System Gain BER=1E-6 , in dB (Typical)

	Air Link Capacity	Modulation	11 GHz	13 GHz	15 GHz	18 GHz	23 GHz
40 MHz Channel							
ACM / Fixed	52 Mbps	QPSK	119.0		116.5	113.0	113.0
ACM / Fixed	121 Mbps	16QAM	111.0		106.0	102.5	102.5
ACM / Fixed	137 Mbps	32QAM	108.5		104.0	100.5	100.0
ACM / Fixed	179 Mbps	64QAM	105.5		100.5	97.0	97.0
ACM / Fixed	211 Mbps	128QAM	102.5		97.0	93.5	93.5
ACM / Fixed	241 Mbps	256QAM	99.5		93.5	90.0	90.0
ACM / Fixed	276 Mbps	512QAM	95.5		89.5	86.0	86.0
ACM / Fixed	311 Mbps	1024QAM	91.0		85.5	82.0	81.5
ACM / Fixed	343 Mbps	2048QAM	86.5		81.0	77.5	77.0
ACM / Fixed	368 Mbps	4096QAM	82.0		76.0	72.5	72.0
50 MHz Channel							
ACM / Fixed	65 Mbps	QPSK		114.5	115.0	111.5	111.5
ACM / Fixed	151 Mbps	16QAM		104.5	105.0	101.5	101.5
ACM / Fixed	177 Mbps	32QAM		102.0	102.5	99.0	99.0
ACM / Fixed	221 Mbps	64QAM		99.5	100.0	96.5	96.0
ACM / Fixed	261 Mbps	128QAM		96.0	96.5	93.0	93.0
ACM / Fixed	302 Mbps	256QAM		92.0	92.5	89.0	89.0
ACM / Fixed	341 Mbps	512QAM		88.5	89.0	85.5	85.5
ACM / Fixed	386 Mbps	1024QAM		84.0	84.5	81.0	81.0
ACM / Fixed	428 Mbps	2048QAM		79.0	79.5	76.0	76.0
ACM / Fixed	459 Mbps	4096QAM		75.0	75.5	72.0	71.0
60 MHz Channel							
ACM / Fixed	77 Mbps	QPSK	117.5				
ACM / Fixed	181 Mbps	16QAM	109.0				
ACM / Fixed	212 Mbps	32QAM	106.5				
ACM / Fixed	265 Mbps	64QAM	104.0				
ACM / Fixed	313 Mbps	128QAM	101.0				
ACM / Fixed	357 Mbps	256QAM	98.0				
ACM / Fixed	408 Mbps	512QAM	94.5				
ACM / Fixed	462 Mbps	1024QAM	89.5				
ACM / Fixed	506 Mbps	2048QAM	85.5				
ACM / Fixed	546 Mbps	4096QAM	81.0				
80 MHz Channel							
ACM / Fixed	104 Mbps	QPSK	116.0			109.5	
ACM / Fixed	242 Mbps	16QAM	108.0			99.5	
ACM / Fixed	279 Mbps	32QAM	105.5			97.0	
ACM / Fixed	352 Mbps	64QAM	103.0			94.5	
ACM / Fixed	422 Mbps	128QAM	99.5			90.5	
ACM / Fixed	482 Mbps	256QAM	96.5			87.0	
ACM / Fixed	552 Mbps	512QAM	92.5			83.5	
ACM / Fixed	622 Mbps	1024QAM	88.5			79.0	
ACM / Fixed	685 Mbps	2048QAM	83.5			74.5	
ACM / Fixed	731 Mbps	4096QAM	79.5			70.0	

*[] See notes in last page

System Gain Specifications^[8]

System Gain BER=1E-6, in dB (Typical)

	Air Link Capacity	Modulation	13 GHz
7 MHz Channel			
ACM / Fixed	9 Mbps	QPSK	122.0
ACM / Fixed	18 Mbps	16QAM	114.5
ACM / Fixed	24 Mbps	32QAM	109.5
ACM / Fixed	30 Mbps	64QAM	107.5
ACM / Fixed	38 Mbps	128QAM	103.0
ACM / Fixed	44 Mbps	256QAM	99.0
ACM / Fixed	50 Mbps	512QAM	95.5
ACM / Fixed	55 Mbps	1024QAM	91.5
ACM / Fixed	59 Mbps	2048QAM	87.5
13.75 / 14 MHz Channel			
ACM / Fixed	18 Mbps	QPSK	119.5
ACM / Fixed	41 Mbps	16QAM	110.5
ACM / Fixed	49 Mbps	32QAM	107.0
ACM / Fixed	62 Mbps	64QAM	104.5
ACM / Fixed	77 Mbps	128QAM	100.5
ACM / Fixed	89 Mbps	256QAM	96.5
ACM / Fixed	102 Mbps	512QAM	92.5
ACM / Fixed	112 Mbps	1024QAM	89.0
ACM / Fixed	122 Mbps	2048QAM	84.5
ACM / Fixed	130 Mbps	4096QAM	80.0
27.5 / 28 MHz Channel			
ACM / Fixed	38 Mbps	QPSK	117.0
ACM / Fixed	73 Mbps	16QAM	109.0
ACM / Fixed	99 Mbps	32QAM	104.5
ACM / Fixed	124 Mbps	64QAM	102.0
ACM / Fixed	157 Mbps	128QAM	97.0
ACM / Fixed	179 Mbps	256QAM	93.5
ACM / Fixed	204 Mbps	512QAM	89.5
ACM / Fixed	224 Mbps	1024QAM	86.0
ACM / Fixed	245 Mbps	2048QAM	81.5
ACM / Fixed	260 Mbps	4096QAM	77.5
55 / 56 MHz Channel			
ACM / Fixed	75 Mbps	QPSK	114.0
ACM / Fixed	150 Mbps	16QAM	106.0
ACM / Fixed	200 Mbps	32QAM	101.5
ACM / Fixed	249 Mbps	64QAM	99.5
ACM / Fixed	319 Mbps	128QAM	94.0
ACM / Fixed	369 Mbps	256QAM	90.0
ACM / Fixed	415 Mbps	512QAM	86.5
ACM / Fixed	458 Mbps	1024QAM	83.0
ACM / Fixed	500 Mbps	2048QAM	78.5
ACM / Fixed	531 Mbps	4096QAM	74.5

*[] See notes in last page

System Gain Specifications^[8]

System Gain BER=1E-6, in dB (Typical)

	Air Link Capacity	Modulation	13 GHz
110 / 112 MHz Channel			
ACM / Fixed	151 Mbps	QPSK	111.0
ACM / Fixed	301 Mbps	16QAM	103.0
ACM / Fixed	400 Mbps	32QAM	98.5
ACM / Fixed	499 Mbps	64QAM	96.5
ACM / Fixed	639 Mbps	128QAM	91.0
ACM / Fixed	738 Mbps	256QAM	87.0
ACM / Fixed	830 Mbps	512QAM	83.5
ACM / Fixed	916 Mbps	1024QAM	80.0
ACM / Fixed	1001 Mbps	2048QAM	75.5
ACM / Fixed	1062 Mbps	4096QAM	71.5

*[] See notes in last page

Transmitter Specifications

System

	28 GHz	39 GHz
Frequency Range (GHz)	27.5 - 28.35	38.6 - 40.0
TR-Spacings Supported (MHz)	450	700, 1000
Standard	FCC Part 30 SRSP 325.25	FCC Part 30 SRSP 338.6

Antenna Interface

Waveguide Type	WR28	WR28
Flange Type	UBR320	UBR320
Mating Flange Type	PBR320	PBR320

Transmitter Power Output Specifications, in dBm (Nominal) / A2C+ Transmit Power backoff ^[7]

Modulation	28 GHz	39 GHz
QPSK	22.5 / -5.5	20.5 / -5.5
16QAM	20.5 / -5.0	18.5 / -5.0
32QAM	20.5 / -5.5	18.5 / -5.5
64QAM	20.5 / -6.0	18.5 / -6.0
128QAM	20.0 / -6.0	18.0 / -6.0
256QAM	19.5 / -6.0	17.5 / -6.0
512QAM	19.0 / -5.5	17.0 / -5.5
1024QAM	18.0 / -5.5	16.0 / -5.5
2048QAM	17.0 / -4.5	15.0 / -4.5
4096QAM	16.0 / -3.5	14.0 / -3.5
Pmin for channels ≤ 60MHz	2.5	0.5
Pmin for ch. ≥ 80MHz and A2C+ all	7.5	5.5

Receiver Specifications

Receiver Threshold BER=1E-6 , in dBm (Typical)

	Air Link Capacity	Modulation	28 GHz	39 GHz
10 MHz Channel				
ACM / Fixed	13 Mbps	QPSK	-93.0	
ACM / Fixed	27 Mbps	16QAM	-86.5	
ACM / Fixed	33 Mbps	32QAM	-83.0	
ACM / Fixed	45 Mbps	64QAM	-79.0	
ACM / Fixed	50 Mbps	128QAM	-77.5	
ACM / Fixed	58 Mbps	256QAM	-73.5	
ACM / Fixed	66 Mbps	512QAM	-70.5	
ACM / Fixed	74 Mbps	1024QAM	-67.0	
ACM / Fixed	81 Mbps	2048QAM	-63.5	
20 MHz Channel				
ACM / Fixed	26 Mbps	QPSK	-90.5	
ACM / Fixed	60 Mbps	16QAM	-82.5	
ACM / Fixed	70 Mbps	32QAM	-80.0	
ACM / Fixed	88 Mbps	64QAM	-77.0	
ACM / Fixed	101 Mbps	128QAM	-75.0	
ACM / Fixed	120 Mbps	256QAM	-71.0	
ACM / Fixed	137 Mbps	512QAM	-67.5	
ACM / Fixed	152 Mbps	1024QAM	-64.5	
ACM / Fixed	167 Mbps	2048QAM	-61.0	
ACM / Fixed	178 Mbps	4096QAM	-57.0	

*[] See notes in last page

Receiver Specifications

Receiver Thershold BER=1E-6 , in dBm (Typical)

Air Link Capacity		Modulation	28 GHz	39 GHz
30 MHz Channel				
ACM / Fixed	38 Mbps	QPSK	-89.5	
ACM / Fixed	90 Mbps	16QAM	-81.0	
ACM / Fixed	101 Mbps	32QAM	-79.0	
ACM / Fixed	135 Mbps	64QAM	-75.5	
ACM / Fixed	154 Mbps	128QAM	-73.0	
ACM / Fixed	178 Mbps	256QAM	-70.0	
ACM / Fixed	204 Mbps	512QAM	-66.0	
ACM / Fixed	230 Mbps	1024QAM	-62.5	
ACM / Fixed	254 Mbps	2048QAM	-59.0	
ACM / Fixed	272 Mbps	4096QAM	-55.0	
40 MHz Channel				
ACM / Fixed	52 Mbps	QPSK	-88.5	
ACM / Fixed	121 Mbps	16QAM	-79.5	
ACM / Fixed	137 Mbps	32QAM	-77.5	
ACM / Fixed	179 Mbps	64QAM	-74.5	
ACM / Fixed	211 Mbps	128QAM	-71.5	
ACM / Fixed	241 Mbps	256QAM	-68.5	
ACM / Fixed	276 Mbps	512QAM	-65.0	
ACM / Fixed	311 Mbps	1024QAM	-61.5	
ACM / Fixed	343 Mbps	2048QAM	-58.0	
ACM / Fixed	368 Mbps	4096QAM	-54.0	
50 MHz Channel				
ACM / Fixed	65 Mbps	QPSK	-87.0	-87.0
ACM / Fixed	151 Mbps	16QAM	-78.5	-78.5
ACM / Fixed	177 Mbps	32QAM	-76.0	-76.0
ACM / Fixed	221 Mbps	64QAM	-73.5	-73.5
ACM / Fixed	261 Mbps	128QAM	-70.5	-70.5
ACM / Fixed	302 Mbps	256QAM	-67.5	-67.0
ACM / Fixed	341 Mbps	512QAM	-64.5	-64.5
ACM / Fixed	386 Mbps	1024QAM	-60.5	-60.5
ACM / Fixed	428 Mbps	2048QAM	-57.0	-57.0
ACM / Fixed	459 Mbps	4096QAM	-53.0	-53.0
100 MHz Channel				
ACM / Fixed	131 Mbps	QPSK	-84.0	-84.0
ACM / Fixed	303 Mbps	16QAM	-75.5	-75.5
ACM / Fixed	354 Mbps	32QAM	-73.0	-73.0
ACM / Fixed	443 Mbps	64QAM	-70.5	-70.5
ACM / Fixed	523 Mbps	128QAM	-67.5	-67.5
ACM / Fixed	604 Mbps	256QAM	-64.5	-64.5
ACM / Fixed	683 Mbps	512QAM	-61.5	-61.0
ACM / Fixed	772 Mbps	1024QAM	-58.0	-57.5
ACM / Fixed	857 Mbps	2048QAM	-54.0	-54.0
ACM / Fixed	918 Mbps	4096QAM	-50.0	-50.0

*[] See notes in last page

System Gain Specifications^[8]

System Gain BER=1E-6, in dB (Typical)

	Air Link Capacity	Modulation	28 GHz	39 GHz
10 MHz Channel				
ACM / Fixed	13 Mbps	QPSK	115.5	
ACM / Fixed	27 Mbps	16QAM	107.0	
ACM / Fixed	33 Mbps	32QAM	103.5	
ACM / Fixed	45 Mbps	64QAM	99.5	
ACM / Fixed	50 Mbps	128QAM	97.5	
ACM / Fixed	58 Mbps	256QAM	93.0	
ACM / Fixed	66 Mbps	512QAM	89.5	
ACM / Fixed	74 Mbps	1024QAM	85.0	
ACM / Fixed	81 Mbps	2048QAM	80.5	
20 MHz Channel				
ACM / Fixed	26 Mbps	QPSK	113.0	
ACM / Fixed	60 Mbps	16QAM	103.0	
ACM / Fixed	70 Mbps	32QAM	100.5	
ACM / Fixed	88 Mbps	64QAM	97.5	
ACM / Fixed	101 Mbps	128QAM	95.0	
ACM / Fixed	120 Mbps	256QAM	90.5	
ACM / Fixed	137 Mbps	512QAM	86.5	
ACM / Fixed	152 Mbps	1024QAM	82.5	
ACM / Fixed	167 Mbps	2048QAM	78.0	
ACM / Fixed	178 Mbps	4096QAM	73.0	
30 MHz Channel				
ACM / Fixed	38 Mbps	QPSK	112.0	
ACM / Fixed	90 Mbps	16QAM	101.5	
ACM / Fixed	101 Mbps	32QAM	99.5	
ACM / Fixed	135 Mbps	64QAM	96.0	
ACM / Fixed	154 Mbps	128QAM	93.0	
ACM / Fixed	178 Mbps	256QAM	89.5	
ACM / Fixed	204 Mbps	512QAM	85.0	
ACM / Fixed	230 Mbps	1024QAM	80.5	
ACM / Fixed	254 Mbps	2048QAM	76.0	
ACM / Fixed	272 Mbps	4096QAM	71.0	
40 MHz Channel				
ACM / Fixed	52 Mbps	QPSK	111.0	
ACM / Fixed	121 Mbps	16QAM	100.0	
ACM / Fixed	137 Mbps	32QAM	98.0	
ACM / Fixed	179 Mbps	64QAM	95.0	
ACM / Fixed	211 Mbps	128QAM	91.5	
ACM / Fixed	241 Mbps	256QAM	88.0	
ACM / Fixed	276 Mbps	512QAM	84.0	
ACM / Fixed	311 Mbps	1024QAM	79.5	
ACM / Fixed	343 Mbps	2048QAM	75.0	
ACM / Fixed	368 Mbps	4096QAM	70.0	

*[] See notes in last page

System Gain Specifications^[8]

System Gain BER=1E-6, in dB (Typical)

	Air Link Capacity	Modulation	28 GHz	39 GHz
50 MHz Channel				
ACM / Fixed	65 Mbps	QPSK	109.5	107.5
ACM / Fixed	151 Mbps	16QAM	99.0	97.0
ACM / Fixed	177 Mbps	32QAM	96.5	94.5
ACM / Fixed	221 Mbps	64QAM	94.0	92.0
ACM / Fixed	261 Mbps	128QAM	90.5	88.5
ACM / Fixed	302 Mbps	256QAM	87.0	84.5
ACM / Fixed	341 Mbps	512QAM	83.5	81.5
ACM / Fixed	386 Mbps	1024QAM	78.5	76.5
ACM / Fixed	428 Mbps	2048QAM	74.0	72.0
ACM / Fixed	459 Mbps	4096QAM	69.0	67.0
100 MHz Channel				
ACM / Fixed	131 Mbps	QPSK	106.5	104.5
ACM / Fixed	303 Mbps	16QAM	96.0	94.0
ACM / Fixed	354 Mbps	32QAM	93.5	91.5
ACM / Fixed	443 Mbps	64QAM	91.0	89.0
ACM / Fixed	523 Mbps	128QAM	87.5	85.5
ACM / Fixed	604 Mbps	256QAM	84.0	82.0
ACM / Fixed	683 Mbps	512QAM	80.5	78.0
ACM / Fixed	772 Mbps	1024QAM	76.0	73.5
ACM / Fixed	857 Mbps	2048QAM	71.0	69.0
ACM / Fixed	918 Mbps	4096QAM	66.0	64.0

*[] See notes in last page

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 values (6 to 28 GHz), or 2.5 dBm (38 GHz).

- [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] The 10 MHz Channel capacity is used for 12.5 MHz Channel capacity in the FCC 7 GHz and 13 GHz bands.
- [6] Profile for 60 GHz is allowed for L6GHz only.
- [7] In A2C+ mode Transmit power is reduced to support two channel operation.
- [8] In A2C+ mode System gain shall be reduced by Transmit Power backoff and capacity will be doubled.

Disclaimer:

All specifications are typical values unless otherwise stated and are subject to change without notice. For details of availability please contact your Aviat Sales Representative.

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