



Technical Specifications

WTM 4500

ANSI

General Specifications

General		
Frequency Bands		6 - 11 GHz
Physical Configurations		1+0, 2+0, Space Diversity (with XPIC)
Modulation and Coding	<i>Fixed or Adaptive</i>	QPSK to 4096 QAM / Hitless AM
Channel Sizes		25, 30, 40, 50, 60, 80 and 100 MHz
Capacity (standard single channel)	<i>Airlink Capacity</i>	up to 918 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>	-40 to -57V
	<i>PoE</i>	48Vdc (44 to 58Vdc)
Consumption		75-90 Watts nominal 108 Watts maximum
Power-save mode		can reduce power consumption by up to 40W
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		FCC CFR 47, Part 101
	<i>All Federal Frequencies</i>	Manual of Regulations for Federal Radio
Maximum Permissible Exposure		EN 50385 Frequency Management
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		± 2.0 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, 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

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

	Modulation	Air Link Capacity	RFC 2544 Throughput ^[2]		Throughput with MLHC ^[3]	
			64 bytes	1518 bytes	64 bytes	1518 bytes
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
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

*[] See notes in last page

Capacity Profiles

	Modulation	Air Link Capacity	RFC 2544 Throughput ^[2]		Throughput with MLHC ^[3]	
			64 bytes	1518 bytes	64 bytes	1518 bytes
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
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

*[] See notes in last page

Transmitter Specifications

System

	L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	11 GHz
Frequency Range (GHz)	5.927 - 6.420 6.430 - 7.125	6.875-7.125	7.125 - 7.9	7.725 - 8.5	10.7 - 11.7
TR-Spacings Supported (MHz)	150, 180, 252.04, 340, 345	150	150, 160, 175, 300	300, 310, 360	490, 500, 520, 530

Antenna Interface

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

Transmitter Power Output Specifications , in dBm (Nominal)

Modulation	L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	11 GHz
QPSK	32.0	32.0	32.0	31.0	29.5
16QAM	31.5	31.5	31.5	30.0	29.5
32QAM	31.5	31.5	31.5	30.0	29.5
64QAM	30.5	30.5	30.5	29.0	29.5
128QAM	30.0	30.0	30.0	28.5	29.5
256QAM	29.5	29.5	29.5	28.0	29.5
512QAM	29.0	29.0	29.0	27.5	29.0
1024QAM	28.0	28.0	28.0	26.5	28.0
2048QAM	27.0	27.0	27.0	25.5	27.0
4096QAM	26.0	26.0	26.0	24.5	26.0
Min Power for channels ≤ 60MHz	12	12	12	11	9.5
Min Power for channels ≥ 80MHz	17	17	17	16	14.5

Receiver Specifications

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

Air Link Capacity	Modulation	L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	11 GHz
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 Thershold BER=1E-6 , in dBm (Typical)

Air Link Capacity Modulation			L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	11 GHz
30 MHz Channel							
ACM / Fixed	38 Mbps	QPSK	-91.5		-91.0	-91.5	-91.0
ACM / Fixed	90 Mbps	16QAM	-83.0		-82.5	-83.0	-82.5
ACM / Fixed	101 Mbps	32QAM	-81.0		-80.5	-81.0	-80.5
ACM / Fixed	135 Mbps	64QAM	-77.5		-77.0	-77.5	-77.0
ACM / Fixed	154 Mbps	128QAM	-75.5		-75.0	-75.5	-74.5
ACM / Fixed	178 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	230 Mbps	1024QAM	-65.0		-64.5	-65.0	-64.0
ACM / Fixed	254 Mbps	2048QAM	-62.0		-61.5	-62.0	-61.0
ACM / Fixed	272 Mbps	4096QAM	-58.0		-57.5	-58.0	-57.5
40 MHz Channel							
ACM / Fixed	52 Mbps	QPSK			-90.0	-90.5	-89.5
ACM / Fixed	121 Mbps	16QAM			-81.5	-82.0	-81.5
ACM / Fixed	137 Mbps	32QAM			-79.5	-80.0	-79.0
ACM / Fixed	179 Mbps	64QAM			-76.0	-76.5	-76.0
ACM / Fixed	211 Mbps	128QAM			-73.5	-74.0	-73.0
ACM / Fixed	241 Mbps	256QAM			-70.5	-71.0	-70.0
ACM / Fixed	276 Mbps	512QAM			-67.0	-67.5	-66.5
ACM / Fixed	311 Mbps	1024QAM			-63.5	-64.0	-63.0
ACM / Fixed	343 Mbps	2048QAM			-60.0	-60.5	-59.5
ACM / Fixed	368 Mbps	4096QAM			-56.5	-57.0	-56.0
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 ^[5]							
ACM / Fixed	77 Mbps	QPSK	-88.5				-88.0
ACM / Fixed	181 Mbps	16QAM	-80.0				-79.5
ACM / Fixed	212 Mbps	32QAM	-77.5				-77.0
ACM / Fixed	265 Mbps	64QAM	-75.0				-74.5
ACM / Fixed	313 Mbps	128QAM	-72.0				-71.5
ACM / Fixed	357 Mbps	256QAM	-69.5				-68.5
ACM / Fixed	408 Mbps	512QAM	-66.0				-65.5
ACM / Fixed	462 Mbps	1024QAM	-62.5				-61.5
ACM / Fixed	506 Mbps	2048QAM	-59.5				-58.5
ACM / Fixed	546 Mbps	4096QAM	-55.5				-55.0

*[] See notes in last page

Receiver Specifications

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

Air Link Capacity Modulation			L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	11 GHz
80 MHz Channel							
ACM / Fixed	104 Mbps	QPSK					-86.5
ACM / Fixed	242 Mbps	16QAM					-78.5
ACM / Fixed	279 Mbps	32QAM					-76.0
ACM / Fixed	352 Mbps	64QAM					-73.5
ACM / Fixed	422 Mbps	128QAM					-70.0
ACM / Fixed	482 Mbps	256QAM					-67.0
ACM / Fixed	552 Mbps	512QAM					-63.5
ACM / Fixed	622 Mbps	1024QAM					-60.5
ACM / Fixed	685 Mbps	2048QAM					-56.5
ACM / Fixed	731 Mbps	4096QAM					-53.5

*[] See notes in last page

System Gain Specifications

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

Air Link Capacity	Modulation	L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	11 GHz
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			
30 MHz Channel						
ACM / Fixed	38 Mbps	QPSK	123.5	123.0	122.5	120.5
ACM / Fixed	90 Mbps	16QAM	114.5	114.0	113.0	112.0
ACM / Fixed	101 Mbps	32QAM	112.5	112.0	111.0	110.0
ACM / Fixed	135 Mbps	64QAM	108.0	107.5	106.5	106.5
ACM / Fixed	154 Mbps	128QAM	105.5	105.0	104.0	104.0
ACM / Fixed	178 Mbps	256QAM	101.5	101.0	100.0	101.0
ACM / Fixed	204 Mbps	512QAM	97.5	97.0	96.0	97.0
ACM / Fixed	230 Mbps	1024QAM	93.0	92.5	91.5	92.0
ACM / Fixed	254 Mbps	2048QAM	89.0	88.5	87.5	88.0
ACM / Fixed	272 Mbps	4096QAM	84.0	83.5	82.5	83.5
40 MHz Channel						
ACM / Fixed	52 Mbps	QPSK		122.0	121.5	119.0
ACM / Fixed	121 Mbps	16QAM		113.0	112.0	111.0
ACM / Fixed	137 Mbps	32QAM		111.0	110.0	108.5
ACM / Fixed	179 Mbps	64QAM		106.5	105.5	105.5
ACM / Fixed	211 Mbps	128QAM		103.5	102.5	102.5
ACM / Fixed	241 Mbps	256QAM		100.0	99.0	99.5
ACM / Fixed	276 Mbps	512QAM		96.0	95.0	95.5
ACM / Fixed	311 Mbps	1024QAM		91.5	90.5	91.0
ACM / Fixed	343 Mbps	2048QAM		87.0	86.0	86.5
ACM / Fixed	368 Mbps	4096QAM		82.5	81.5	82.0
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			

*[] See notes in last page

System Gain Specifications

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

Air Link Capacity		Modulation	L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	11 GHz
60 MHz Channel ^[5]							
ACM / Fixed	77 Mbps	QPSK	120.5				117.5
ACM / Fixed	181 Mbps	16QAM	111.5				109.0
ACM / Fixed	212 Mbps	32QAM	109.0				106.5
ACM / Fixed	265 Mbps	64QAM	105.5				104.0
ACM / Fixed	313 Mbps	128QAM	102.0				101.0
ACM / Fixed	357 Mbps	256QAM	99.0				98.0
ACM / Fixed	408 Mbps	512QAM	95.0				94.5
ACM / Fixed	462 Mbps	1024QAM	90.5				89.5
ACM / Fixed	506 Mbps	2048QAM	86.5				85.5
ACM / Fixed	546 Mbps	4096QAM	81.5				81.0
80 MHz Channel							
ACM / Fixed	104 Mbps	QPSK					116.0
ACM / Fixed	242 Mbps	16QAM					108.0
ACM / Fixed	279 Mbps	32QAM					105.5
ACM / Fixed	352 Mbps	64QAM					103.0
ACM / Fixed	422 Mbps	128QAM					99.5
ACM / Fixed	482 Mbps	256QAM					96.5
ACM / Fixed	552 Mbps	512QAM					92.5
ACM / Fixed	622 Mbps	1024QAM					88.5
ACM / Fixed	685 Mbps	2048QAM					83.5
ACM / Fixed	731 Mbps	4096QAM					79.5

*[] 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.

[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] Profile for 60 GHz is allowed for L6GHz and 11GHz only.

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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