



## Technical Specifications

# STR 4500 Outdoor Trunk Radio System

WTM 4500XT with Outdoor Branching Unit (WBX)

ETSI

## General Specifications

General		
Frequency Bands		5 - 11 GHz
Physical Configurations		4+0, 6+0, 8+0, Space Diversity (with XPIC)
Modulation and Coding	<i>Fixed or Adaptive</i>	QPSK to 2048 QAM / Hitless AM
Channel Sizes		27.5/28, 40, 55/56, 80, 110/112 MHz
Capacity (standard single channel)	<i>Airlink Capacity</i>	up to 1001 Mbit/s*
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		295mm x 270mm x 95mm (11.5in x 10.5in x 4in)
Weight, including antenna interfaces		7.5 kg (16.5lbs)
Operating Temperature	<i>Guaranteed</i>	-33° to +55°C
	<i>Extended</i>	-45° to +65°C <sup>[1]</sup>
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 60950-22, IEC/EN 62368-1
RF Performance		EN 302 217-2
Maximum Permissible Exposure		EN 50385
Water Ingress		IEC 60529, IP66
Lightning Protection		Internal, compliant to IEC-61000-4-5, Class 5

## 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, -33 to +55°C	Better than ± 2.5dB
	-20 to -30 dBm, -33 to +55°C	Better than ± 3.5dB
Space Diversity		IF Combining with MRC

## 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
ERP		SNMPv3, TACACS+ (scheduled for 2.1)

### Synchronisation

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

## General Specifications

### Interfaces

Traffic	2x fixed RJ45 2x optional SFP	10/100/1000BT Electrical 1, 2.5 & 10Gbps speeds, both Optical (Single and Multi-mode) and Electrical
Power	<i>Direct</i>	24Vdc or 48 Vdc
USB support	<i>Management</i>	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

[4] See notes in last page

## Outdoor Branching Unit (WBX) Specifications

(operating as 4+0)	5 GHz	L6/U6 GHz	7 GHz	8 GHz	11 GHz
<b>System</b>					
Frequency Range (GHz)	4.4 - 5.0	5.927 - 6.420 6.425 - 7.11	7.107 - 7.9	7.7 - 8.5	10.7 - 11.7
Channel plans supported, MHz	28, 40, 56, 112	28, 40, 56, 112	28, 56	28, 56	28, 40, 56, 112
Branching loss for 4+0 (dB) <sup>[7]</sup>	8.5	7.8	8.4	8.6	10.5
<b>Interface</b>					
Connection to Main Antenna	N-type	UDR 70	UDR 84	UDR 84	UDR 100
Connection to Diversity Antenna	N-type	N-type or UDR 70	N-type or UDR 84	N-type or UDR 84	N-type or UDR 100
Tx-Rx (Connection to WTM 4500XT)	BMA	BMA	BMA	BMA	BMA
<b>Mechanical</b>					
Size	640 mm x 300 mm x 200 mm				
Weight	45 kg (100 lb)				
<b>Environmental</b>					
Operating Temperature	Guaranteed				-33° to +55°C
	Extended				-50° to +55°C
Humidity	Guaranteed				100%
Altitude	Guaranteed				4500 Meters
<b>Standards Compliance</b>					
EMC	EN 301 489-1, EN 301 489-4				
Operation	EN 300 019-2-4, Class 4.1 (WTM 4500XT and WBX)				
Safety	IEC/EN 60950-22, IEC/EN 62368-1				
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				

\*[ ] See notes in last page

## Capacity Profiles

	Modulation	Air Link Capacity	RFC 2544 Throughput <sup>[2]</sup>		Throughput with MLHC <sup>[3]</sup>	
			64 bytes	1518 bytes	64 bytes	1518 bytes
<b>27.5 / 28 MHz Channel</b>						
ACM/Fixed Max System Gain	QPSK	38 Mbps	49 Mbps	39 Mbps	58 Mbps	39 Mbps
ACM/Fixed Max System Gain	16QAM	73 Mbps	93 Mbps	74 Mbps	123 Mbps	74 Mbps
ACM/Fixed Max System Gain	32QAM	99 Mbps	125 Mbps	100 Mbps	166 Mbps	100 Mbps
ACM/Fixed Max System Gain	64QAM	124 Mbps	157 Mbps	125 Mbps	208 Mbps	125 Mbps
ACM/Fixed Max System Gain	128QAM	157 Mbps	199 Mbps	159 Mbps	264 Mbps	158 Mbps
ACM/Fixed Max System Gain	256QAM	179 Mbps	228 Mbps	182 Mbps	302 Mbps	183 Mbps
ACM/Fixed Max System Gain	512QAM	204 Mbps	260 Mbps	207 Mbps	333 Mbps	208 Mbps
ACM/Fixed Max System Gain	1024QAM	224 Mbps	285 Mbps	227 Mbps	377 Mbps	228 Mbps
ACM/Fixed Max System Gain	2048QAM	245 Mbps	312 Mbps	248 Mbps	412 Mbps	249 Mbps
<b>40 MHz Channel</b>						
ACM/Fixed Max System Gain	QPSK	52 Mbps	66 Mbps	53 Mbps	79 Mbps	53 Mbps
ACM/Fixed Max System Gain	16QAM	101 Mbps	128 Mbps	102 Mbps	170 Mbps	102 Mbps
ACM/Fixed Max System Gain	32QAM	141 Mbps	180 Mbps	143 Mbps	237 Mbps	143 Mbps
ACM/Fixed Max System Gain	64QAM	170 Mbps	216 Mbps	172 Mbps	286 Mbps	172 Mbps
ACM/Fixed Max System Gain	128QAM	214 Mbps	273 Mbps	217 Mbps	360 Mbps	218 Mbps
ACM/Fixed Max System Gain	256QAM	249 Mbps	317 Mbps	252 Mbps	419 Mbps	253 Mbps
ACM/Fixed Max System Gain	512QAM	280 Mbps	356 Mbps	283 Mbps	471 Mbps	283 Mbps
ACM/Fixed Max System Gain	1024QAM	307 Mbps	391 Mbps	311 Mbps	517 Mbps	311 Mbps
ACM/Fixed Max System Gain	2048QAM	336 Mbps	428 Mbps	340 Mbps	565 Mbps	341 Mbps
<b>55 / 56 MHz Channel</b>						
ACM/Fixed Max System Gain	QPSK	75 Mbps	96 Mbps	76 Mbps	115 Mbps	76 Mbps
ACM/Fixed Max System Gain	16QAM	150 Mbps	191 Mbps	152 Mbps	253 Mbps	153 Mbps
ACM/Fixed Max System Gain	32QAM	200 Mbps	255 Mbps	202 Mbps	337 Mbps	203 Mbps
ACM/Fixed Max System Gain	64QAM	249 Mbps	317 Mbps	252 Mbps	420 Mbps	254 Mbps
ACM/Fixed Max System Gain	128QAM	319 Mbps	407 Mbps	323 Mbps	537 Mbps	325 Mbps
ACM/Fixed Max System Gain	256QAM	369 Mbps	470 Mbps	373 Mbps	620 Mbps	375 Mbps
ACM/Fixed Max System Gain	512QAM	415 Mbps	528 Mbps	420 Mbps	699 Mbps	422 Mbps
ACM/Fixed Max System Gain	1024QAM	458 Mbps	583 Mbps	463 Mbps	769 Mbps	466 Mbps
ACM/Fixed Max System Gain	2048QAM	500 Mbps	637 Mbps	506 Mbps	842 Mbps	506 Mbps
<b>80 MHz Channel</b>						
ACM/Fixed Max System Gain	QPSK	105 Mbps	133 Mbps	106 Mbps	160 Mbps	106 Mbps
ACM/Fixed Max System Gain	16QAM	202 Mbps	257 Mbps	204 Mbps	340 Mbps	206 Mbps
ACM/Fixed Max System Gain	32QAM	283 Mbps	360 Mbps	286 Mbps	476 Mbps	288 Mbps
ACM/Fixed Max System Gain	64QAM	340 Mbps	433 Mbps	344 Mbps	571 Mbps	346 Mbps
ACM/Fixed Max System Gain	128QAM	429 Mbps	547 Mbps	435 Mbps	721 Mbps	437 Mbps
ACM/Fixed Max System Gain	256QAM	499 Mbps	635 Mbps	505 Mbps	838 Mbps	508 Mbps
ACM/Fixed Max System Gain	512QAM	560 Mbps	713 Mbps	567 Mbps	941 Mbps	567 Mbps
ACM/Fixed Max System Gain	1024QAM	616 Mbps	783 Mbps	623 Mbps	1032 Mbps	626 Mbps
ACM/Fixed Max System Gain	2048QAM	673 Mbps	856 Mbps	681 Mbps	1127 Mbps	684 Mbps
<b>110 / 112 MHz Channel</b>						
ACM/Fixed Max System Gain	QPSK	151 Mbps	192 Mbps	152 Mbps	236 Mbps	153 Mbps
ACM/Fixed Max System Gain	16QAM	301 Mbps	383 Mbps	304 Mbps	506 Mbps	304 Mbps
ACM/Fixed Max System Gain	32QAM	400 Mbps	510 Mbps	405 Mbps	672 Mbps	405 Mbps
ACM/Fixed Max System Gain	64QAM	499 Mbps	635 Mbps	505 Mbps	838 Mbps	508 Mbps
ACM/Fixed Max System Gain	128QAM	639 Mbps	813 Mbps	647 Mbps	1074 Mbps	647 Mbps
ACM/Fixed Max System Gain	256QAM	738 Mbps	940 Mbps	747 Mbps	1240 Mbps	746 Mbps
ACM/Fixed Max System Gain	512QAM	830 Mbps	1057 Mbps	840 Mbps	1391 Mbps	844 Mbps
ACM/Fixed Max System Gain	1024QAM	916 Mbps	1166 Mbps	927 Mbps	1538 Mbps	928 Mbps
ACM/Fixed Max System Gain	2048QAM	1001 Mbps	1274 Mbps	1013 Mbps	1684 Mbps	1013 Mbps

\*[] See notes in last page

## Transmitter Specifications

### System

	5 GHz	L6/U6 GHz	7 GHz	8 GHz	11 GHz
Frequency Range (GHz)	4.4-5.0	5.927-6.420 - 6.425-7.11	7.107-7.9	7.7-8.5	10.7-11.7
TR-Spacings Supported (MHz)	300, 312	240, 252.04, 266, 340	154, 161, 168, 196, 245	119, 126, 151.614, 195, 208, 266, 310, 311.32, 305.56	490, 530

### Transmitter Power Output Specifications , in dBm (Nominal)

	5 GHz	L6/U6 GHz	7 GHz	8 GHz	11 GHz
QPSK	32.5	32.5	33.0	31.5	30.0
16QAM	32.0	32.0	32.5	30.5	30.0
32QAM	32.0	32.0	32.5	30.5	30.0
64QAM	31.0	31.0	31.5	29.5	30.0
128QAM	30.5	30.5	31.0	29.0	30.0
256QAM	30.0	30.0	30.5	28.5	30.0
512QAM	29.5	29.5	30.0	28.0	29.5
1024QAM	28.5	28.5	29.0	27.0	28.5
2048QAM	27.5	27.5	28.0	26.0	27.5
Min Power for channels ≤ 56MHz	17.5	17.5	12.5	11.5	15
Min Power for channels ≥ 80MHz	17.5	17.5	17.5	16.5	15

## Receiver Specifications

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

Air Link Capacity	Modulation	5 GHz	L6/U6 GHz	7 GHz	8 GHz	11 GHz
<b>27.5 / 28 MHz Channel</b>						
ACM / Fixed	38 Mbps QPSK	-92.0	-92.0	-92.0	-92.0	-91.0
ACM / Fixed	73 Mbps 16QAM	-86.0	-86.0	-86.0	-86.0	-85.5
ACM / Fixed	99 Mbps 32QAM	-81.5	-81.5	-81.5	-81.5	-81.0
ACM / Fixed	124 Mbps 64QAM	-79.0	-79.0	-79.0	-79.0	-78.5
ACM / Fixed	157 Mbps 128QAM	-74.5	-74.5	-74.5	-74.5	-74.0
ACM / Fixed	179 Mbps 256QAM	-71.5	-71.5	-71.5	-71.5	-71.0
ACM / Fixed	204 Mbps 512QAM	-68.0	-68.0	-68.0	-68.0	-67.5
ACM / Fixed	224 Mbps 1024QAM	-65.5	-65.5	-65.5	-65.5	-65.0
ACM / Fixed	245 Mbps 2048QAM	-62.5	-62.5	-62.5	-62.5	-61.5
<b>40 MHz Channel<sup>[5]</sup></b>						
ACM / Fixed	52 Mbps QPSK	-90.5	-90.5	-90.5	-90.5	-90.0
ACM / Fixed	101 Mbps 16QAM	-84.5	-84.5	-84.5	-84.5	-84.0
ACM / Fixed	141 Mbps 32QAM	-80.0	-80.0	-80.0	-80.0	-79.0
ACM / Fixed	170 Mbps 64QAM	-78.0	-78.0	-78.0	-78.0	-77.0
ACM / Fixed	214 Mbps 128QAM	-73.5	-73.5	-73.5	-73.5	-73.0
ACM / Fixed	249 Mbps 256QAM	-70.0	-70.0	-70.0	-70.0	-69.0
ACM / Fixed	280 Mbps 512QAM	-67.0	-67.0	-67.0	-67.0	-66.5
ACM / Fixed	307 Mbps 1024QAM	-64.5	-64.5	-64.5	-64.5	-63.5
ACM / Fixed	336 Mbps 2048QAM	-61.0	-61.0	-61.0	-61.0	-60.5

\*[ ] See notes in last page

## Receiver Specifications

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

Air Link Capacity Modulation			5 GHz	L6/U6 GHz	7 GHz	8 GHz	11 GHz
<b>55 / 56 MHz Channel</b>							
ACM / Fixed	75 Mbps	QPSK	-89.5	-89.5	-89.5	-89.5	-88.5
ACM / Fixed	150 Mbps	16QAM	-83.0	-83.0	-83.0	-83.0	-82.5
ACM / Fixed	200 Mbps	32QAM	-78.5	-78.5	-78.5	-78.5	-78.0
ACM / Fixed	249 Mbps	64QAM	-76.5	-76.5	-76.5	-76.5	-75.5
ACM / Fixed	319 Mbps	128QAM	-72.0	-72.0	-72.0	-72.0	-71.0
ACM / Fixed	369 Mbps	256QAM	-68.5	-68.5	-68.5	-68.5	-67.5
ACM / Fixed	415 Mbps	512QAM	-65.5	-65.5	-65.5	-65.5	-64.5
ACM / Fixed	458 Mbps	1024QAM	-62.5	-62.5	-62.5	-62.5	-61.5
ACM / Fixed	500 Mbps	2048QAM	-59.5	-59.5	-59.5	-59.5	-58.5
<b>80 MHz Channel<sup>[5]</sup></b>							
ACM / Fixed	105 Mbps	QPSK	-87.5	-87.5	-87.5	-87.5	-87.0
ACM / Fixed	202 Mbps	16QAM	-81.5	-81.5	-81.5	-81.5	-81.0
ACM / Fixed	283 Mbps	32QAM	-77.0	-77.0	-77.0	-77.0	-76.0
ACM / Fixed	340 Mbps	64QAM	-75.0	-75.0	-75.0	-75.0	-74.0
ACM / Fixed	429 Mbps	128QAM	-70.5	-70.5	-70.5	-70.5	-70.0
ACM / Fixed	499 Mbps	256QAM	-67.0	-67.0	-67.0	-67.0	-66.0
ACM / Fixed	560 Mbps	512QAM	-64.0	-64.0	-64.0	-64.0	-63.5
ACM / Fixed	616 Mbps	1024QAM	-61.0	-61.0	-61.0	-61.0	-60.5
ACM / Fixed	673 Mbps	2048QAM	-58.0	-58.0	-58.0	-58.0	-57.5
<b>110 / 112 MHz Channel<sup>[6]</sup></b>							
ACM / Fixed	151 Mbps	QPSK	-86.5	-86.5	-86.5	-86.5	-85.5
ACM / Fixed	301 Mbps	16QAM	-80.0	-80.0	-80.0	-80.0	-79.5
ACM / Fixed	400 Mbps	32QAM	-75.5	-75.5	-75.5	-75.5	-75.0
ACM / Fixed	499 Mbps	64QAM	-73.5	-73.5	-73.5	-73.5	-72.5
ACM / Fixed	639 Mbps	128QAM	-69.0	-69.0	-69.0	-69.0	-68.0
ACM / Fixed	738 Mbps	256QAM	-65.5	-65.5	-65.5	-65.5	-64.5
ACM / Fixed	830 Mbps	512QAM	-62.5	-62.5	-62.5	-62.5	-61.5
ACM / Fixed	916 Mbps	1024QAM	-59.5	-59.5	-59.5	-59.5	-58.5
ACM / Fixed	1001 Mbps	2048QAM	-56.5	-56.5	-56.5	-56.5	-55.5

\*[ ] See notes in last page

## System Gain Specifications

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

Air Link Capacity	Modulation	5 GHz	L6/U6 GHz	7 GHz	8 GHz	11 GHz
<b>27.5 / 28 MHz Channel</b>						
ACM / Fixed	38 Mbps QPSK	124.5	124.5	125.0	123.5	121.0
ACM / Fixed	73 Mbps 16QAM	118.0	118.0	118.5	116.5	115.5
ACM / Fixed	99 Mbps 32QAM	113.5	113.5	114.0	112.0	111.0
ACM / Fixed	124 Mbps 64QAM	110.0	110.0	110.5	108.5	108.5
ACM / Fixed	157 Mbps 128QAM	105.0	105.0	105.5	103.5	104.0
ACM / Fixed	179 Mbps 256QAM	101.5	101.5	102.0	100.0	101.0
ACM / Fixed	204 Mbps 512QAM	97.5	97.5	98.0	96.0	97.0
ACM / Fixed	224 Mbps 1024QAM	94.0	94.0	94.5	92.5	93.5
ACM / Fixed	245 Mbps 2048QAM	90.0	90.0	90.5	88.5	89.0
<b>40 MHz Channel<sup>[5]</sup></b>						
ACM / Fixed	52 Mbps QPSK	123.0	123.0	123.5	122.0	120.0
ACM / Fixed	101 Mbps 16QAM	116.5	116.5	117.0	115.0	114.0
ACM / Fixed	141 Mbps 32QAM	112.0	112.0	112.5	110.5	109.0
ACM / Fixed	170 Mbps 64QAM	109.0	109.0	109.5	107.5	107.0
ACM / Fixed	214 Mbps 128QAM	104.0	104.0	104.5	102.5	103.0
ACM / Fixed	249 Mbps 256QAM	100.0	100.0	100.5	98.5	99.0
ACM / Fixed	280 Mbps 512QAM	96.5	96.5	97.0	95.0	96.0
ACM / Fixed	307 Mbps 1024QAM	93.0	93.0	93.5	91.5	92.0
ACM / Fixed	336 Mbps 2048QAM	88.5	88.5	89.0	87.0	88.0
<b>55 / 56 MHz Channel</b>						
ACM / Fixed	75 Mbps QPSK	122.0	122.0	122.5	121.0	118.5
ACM / Fixed	150 Mbps 16QAM	115.0	115.0	115.5	113.5	112.5
ACM / Fixed	200 Mbps 32QAM	110.5	110.5	111.0	109.0	108.0
ACM / Fixed	249 Mbps 64QAM	107.5	107.5	108.0	106.0	105.5
ACM / Fixed	319 Mbps 128QAM	102.5	102.5	103.0	101.0	101.0
ACM / Fixed	369 Mbps 256QAM	98.5	98.5	99.0	97.0	97.5
ACM / Fixed	415 Mbps 512QAM	95.0	95.0	95.5	93.5	94.0
ACM / Fixed	458 Mbps 1024QAM	91.0	91.0	91.5	89.5	90.0
ACM / Fixed	500 Mbps 2048QAM	87.0	87.0	87.5	85.5	86.0
<b>80 MHz Channel<sup>[5]</sup></b>						
ACM / Fixed	105 Mbps QPSK	120.0	120.0	120.5	119.0	117.0
ACM / Fixed	202 Mbps 16QAM	113.5	113.5	114.0	112.0	111.0
ACM / Fixed	283 Mbps 32QAM	109.0	109.0	109.5	107.5	106.0
ACM / Fixed	340 Mbps 64QAM	106.0	106.0	106.5	104.5	104.0
ACM / Fixed	429 Mbps 128QAM	101.0	101.0	101.5	99.5	100.0
ACM / Fixed	499 Mbps 256QAM	97.0	97.0	97.5	95.5	96.0
ACM / Fixed	560 Mbps 512QAM	93.5	93.5	94.0	92.0	93.0
ACM / Fixed	616 Mbps 1024QAM	89.5	89.5	90.0	88.0	89.0
ACM / Fixed	673 Mbps 2048QAM	85.5	85.5	86.0	84.0	85.0
<b>110 / 112 MHz Channel<sup>[6]</sup></b>						
ACM / Fixed	151 Mbps QPSK	119.0	119.0	119.5	118.0	115.5
ACM / Fixed	301 Mbps 16QAM	112.0	112.0	112.5	110.5	109.5
ACM / Fixed	400 Mbps 32QAM	107.5	107.5	108.0	106.0	105.0
ACM / Fixed	499 Mbps 64QAM	104.5	104.5	105.0	103.0	102.5
ACM / Fixed	639 Mbps 128QAM	99.5	99.5	100.0	98.0	98.0
ACM / Fixed	738 Mbps 256QAM	95.5	95.5	96.0	94.0	94.5
ACM / Fixed	830 Mbps 512QAM	92.0	92.0	92.5	90.5	91.0
ACM / Fixed	916 Mbps 1024QAM	88.0	88.0	88.5	86.5	87.0
ACM / Fixed	1001 Mbps 2048QAM	84.0	84.0	84.5	82.5	83.0

\*[ ] 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.

- [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] 40 MHz are only available for 5GHz, U6GHz, and 11GHz. 80 MHz channels are only available for U6GHz, and 11GHz.
- [6] 110 / 112 MHz channels are only available for 5GHz, L6GHz, and 11GHz.
- [7] Total loss for one link, i.e from one TX port across to the opposite RX port, not including free-space loss.

**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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