

TTA-UMG101H

UMTS | Twin TMA | AISG v2.0 | Fixed Gain

- UMTS, twin TMA, AISG v2.0, fixed gain
- Increases coverage and capacity
- Helps to minimize site acquisition issues
- Reduces the cost of network expansion



Ordering Options		Model Numbers
7/16-DIN Female Connectors		TTA-UMG101H
4.3/10 Female Connectors		TTA-UMG101H-43F
RF Characteristics		
Downlink (TX) Path		
Frequency Band	2110-2170 MHz	
Insertion Loss (typical)	0.3 dB	
Return Loss	> 18 dB	
Continuous Average Power (53 dBm)	200 W	
Intermodulation (2x43 dBm TX carrier, BTS Port)	-125 dBm in RX band, ANT port	
Uplink (RX) Path		
Frequency Band	1920-1980 MHz	
Gain (nominal)	12 dB	
Noise Figure (typical)	1.3 dB	
Insertion Loss, Bypass Mode (typical)	2.0 dB	
Return Loss	> 18 dB	
Output IP3 (typical)	25 dBm	
Power Supply and Alarm		AISG Mode
DC	Current Window Alarm Mode	9 to 31 V
Power	10-130 mA	< 2 W
Alarm	170-180 mA (9-15 V input)	3GPP/AISG v2.0
Environmental Characteristics		
Operating Temperature Range	-40° to +65° C (-40° to +149° F)	
Operation	ETS 300 019-1-4, Class 4.1E	
Storage	ETS 300 019-1-1, Class 1.2	
Ingress Protection	IP67	
EMC	EN301 489-8	
Safety Standards	EN60950	
Lightning Protection	ANT, BTS	10 kA 8/20 μs
	RET Port	5 kA common mode
MTBF (minimum)	1.2 Mh/TMA	



Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

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Mechanical Characteristics		
Dimensions - Length x Width x Depth	174 x 153.5 x 53 mm	6.9 x 6.0 x 2.0 in
Gross Weight	2.8 kg	6.2 lbs
Connectors (number, type)	BTS	(2x) 7/16-DIN Female or 4.3/10 Female
	ANT	(2x) 7/16-DIN Female or 4.3/10 Female
	AISG	(1x) 8-Pin Circular Female
Color	NCS 1502-R	
Mounting	Hose clamps, arbitrary orientation	

Dimensions	Block Diagram

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