

TTA-DN110x

GSM1800/UMTS2100 | Twin TMA | AISG v2.0 | Fixed Gain

- 1800/2100 MHz, Twin TMA, AISG v2.0, Fixed Gain
- Available in single mode or independent AISG
- Increases coverage and capacity
- Helps to minimize site acquisition issues
- Reduces the cost of network expansion



Ordering Options	Connector Type	
	7/16-DIN Female Connectors	4.3/10 Female Connectors
Single Mode (1x AISG)	TTA-DN110H	TTA-DN110H-43F
Independent AISG (2x AISG)	TTA-DN110N	TTA-DN110N-43F
RF Characteristics		
Downlink (TX) Path	GSM1800	UMTS2100
Frequency Band	1805-1880 MHz	2110-2170 MHz
Insertion Loss	< 0.65 dB	< 0.4 dB
Continuous Average Power (53 dBm)	200 W	200 W
Intermodulation (2x43 dBm TX carrier, BTS Port)	-117 dBm in RX band, ANT port	-125 dBm in RX band, ANT port
Uplink (RX) Path	GSM1800	UMTS2100
Frequency Band	1710-1785 MHz	1920-1980 MHz
Gain (nominal)	12 dB	12 dB
Noise Figure (typical)	1.4 dB	1.3 dB
Insertion Loss, Bypass Mode	< 2.7 dB	< 2.5 dB
Output IP3 (typical)	25 dBm	25 dBm
Power Supply and Alarm		
DC	24 V DC nominal (9 to 31 V DC)	
Power	3GPP/AISG v2.0	
Alarm	< 4 W	
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 Class1.2	
Ingress Protection	IP67	
EMC	EN 301 489-8/-23	
Safety Standards	EN 60950	
Lightning Protection	ANT, BTS	10 kA 8/20 μs
	RET Port	5 kA common mode
MTBF (minimum)	1 Mh/TMA	



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Mechanical Characteristics			
Dimensions - Length x Width x Depth		209 x 234 x 107 mm 8.2 x 9.2 x 4.2 in	
Gross Weight		7.2 kg 15.9 lbs	
Connectors (type)	BTS	2 Connectors / 7/16-DIN Female or 4.3/10 Female	
	ANT	4 Connectors / 7/16-DIN Female or 4.3/10 Female	
	AISG	Single Mode Model	(1x) 8-Pin Circular Female
		Independent Mode Model	(2x) 8-Pin Circular Female
Color		NCS 1502-R	
Mounting		Hose clamps, arbitrary orientation	

Dimensions (TTA-DN110N shown)	Block Diagram

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