

## TTA-DN1xxx

GSM1800/UMTS2100 | Twin TMA | AISG v2.0 or AISG v1.1 | Fixed Gain

- 1800/2100 MHz, Twin TMA, AISG v2.0 or AISG v1.1, 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-DN120H	TTA-DN120H-43F
Independent AISG (2x AISG)	TTA-DN111N	TTA-DN111N-43F
RF Characteristics		
Downlink (TX) Path	GSM1800	UMTS2100
Frequency Band	1805-1880 MHz	2110-2170 MHz
Insertion Loss (typical)	0.5 dB	0.3 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 (typical)	2.0 dB	2.0 dB
Output IP3 (typical)	25 dBm	25 dBm
Power Supply and Alarm	Current Window Alarm Mode	AISG Mode
DC	9 to 15 V	24 V DC nominal (9 to 31 V DC)
Power	< 165 mA @ 12V	< 4 W
Alarm	320 mA, factory configurable max	3GPP/AISG v2.0 or AISG v1.1
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	EN 301 489-8	
Safety Standards	EN 60950	
Lightning Protection	ANT, BTS	10 kA 8/20 μs
	RET Port	5 kA common mode
MTBF (minimum)	1 Mh/TMA	

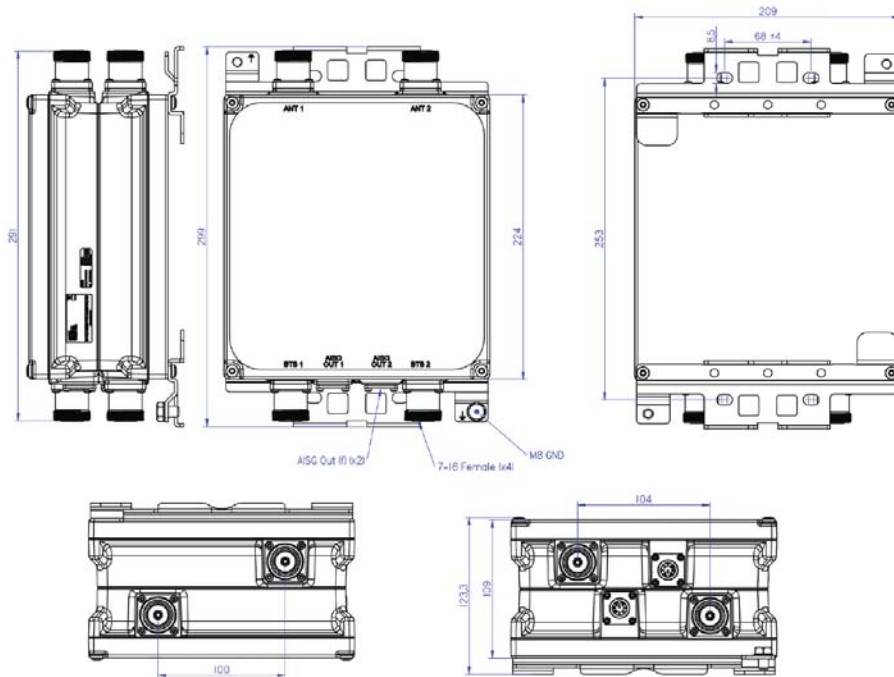


Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product.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

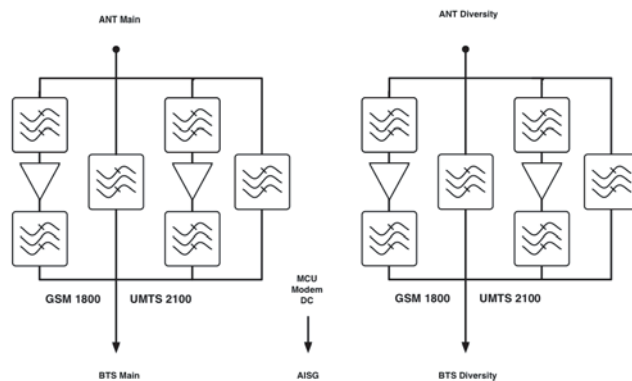
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Mechanical Characteristics		
Dimensions - Length x Width x Depth		
274 x 168 x 120 mm      10.8 x 6.6 x 4.7 in		
Gross Weight		
8 kg      17.6 lbs		
Connectors (type)	BTS	
	ANT	
	AISG	Single Mode Model
		Independent AISG Model
Color		
NCS 1502-R		
Mounting		
Hose clamps, arbitrary orientation		
Dimensions		



### Block Diagram



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