

## TTA-DN110H-06

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

- GSM1800/UMTS2100, twin TMA, AISG v2.0, fixed gain
- Increases coverage and capacity
- Helps to minimize site acquisition issues
- Reduces the cost of network expansion



| RF Characteristics                      |                 |                                  |
|---|-----------------|----------------------------------|
| Downlink (TX) Path                      |                 |                                  |
|   |                 | GSM1800                          |
|   |                 | UMTS2100                         |
| Frequency Band                          |                 | 1805-1880 MHz                    |
| Insertion Loss (avg)                    |                 | < 0.45 dB                        |
| Return Loss                             |                 | ≥ 18 dB                          |
| Power Handling                          | Continuous Wave | < 160 W                          |
|   | Peak (+63 dBm)  | < 2000 W                         |
| Intermodulation (2x43 dBm)              |                 | ≤ -112 dBm                       |
| Uplink (RX) Path                        |                 |                                  |
|   |                 | GSM1800                          |
|   |                 | UMTS2100                         |
| Frequency Band                          |                 | 1710-1785 MHz                    |
| Gain (±1.0 dB)                          |                 | 12 dB                            |
| Return Loss                             | DC On           | ≥ 18 dB                          |
|   | DC Off          | ≥ 14 dB                          |
| Noise Figure (avg)                      |                 | < 1.2 dB                         |
| Insertion Loss, Bypass Mode             |                 | ≤ 3.0 dB (DC Off)                |
| Output 1 dB compression point           |                 | ≥ 12 dBm                         |
| Output IP3                              |                 | ≥ 24 dBm                         |
| Power Supply and Alarm - AISG Mode      |                 |                                  |
| DC Supply Voltage                       |                 | 9.0 to 30 V                      |
| AISG Control Protocol                   |                 | AISG v2.0                        |
| Operating Current per TMA (without RET) | at 12 V         | 245 ± 5 mA                       |
|   | at 17 V         | 175 ± 5 mA                       |
|   | at 30 V         | 105 ± 5 mA                       |
| Power Consumption                       |                 | < 3.0 W                          |
| Environmental Characteristics           |                 |                                  |
| Operating Temperature Range             |                 | -40° to +65° C (-40° to +149° F) |
| Lightning                               |                 | 10 (8/20 μs)                     |
| Ingress Protection                      |                 | IP67                             |
| EMC                                     |                 | ETS 300 342-3                    |
| MTBF                                    |                 | ≥ 1.0 Mh                         |

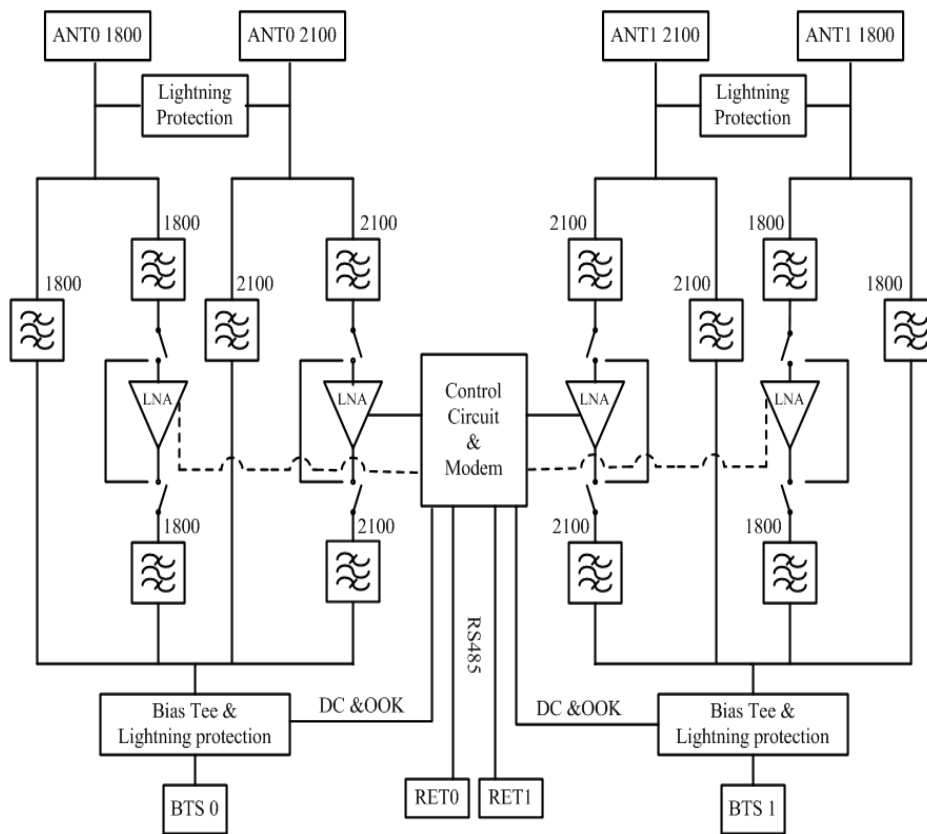


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

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| Mechanical Characteristics                             |                    |                                |
|--|--------------------|--------------------------------|
| Dimensions - Length x Width x Depth (without Brackets) | 280 x 196 x 110 mm | 11.0 x 7.7 x 4.3 in            |
| Weight with Brackets                                   | ≤ 7 kg             | ≤ 15.4 lbs                     |
| Connectors (number, type)                              | BTS                | 2 Connectors / 7/16-DIN Female |
|  | ANT                | 4 Connectors / 7/16-DIN Female |
| Mounting   |                    |                                |
| Wall or Mast Mounting                                  | 30-125 mm          | 1.2-4.9 in                     |
| Block Diagram  |                    |                                |



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