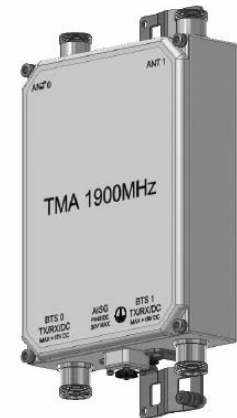


TTA-PS000H

1900 MHz Full Band | Dual Duplex | Twin TMA | AISG 2.0

- Dual duplexed TMA provides improved base station sensitivity
- Hardware and software configuration using AISG “personality” upload
- High reliability with full lightning protection and a fail-safe bypass mode
- AISG and current dump compatible
- High power handling

| RF Characteristics | |
|---|---|
| Downlink (TX) Path | |
| Frequency band | 1930-1990 MHz |
| Insertion loss | 0.6 dB typical |
| Return loss, all ports | 18 dB min (VSWR < 1.3:1) |
| Continuous average power | 300W max |
| Peak power | 3000W max |
| Uplink (RX) Path | |
| Frequency band | 1850-1910 MHz |
| Gain | 12 dB nominal |
| Gain variation over frequency, temperature | ±1 dB max |
| Noise figure | 1.3 dB typical |
| Return loss, normal mode, all ports | 18 dB minimum (VSWR < 1.3:1) |
| Insertion loss, bypass mode | 3.5 dB typical |
| Return loss, bypass mode, all ports | 14 dB minimum (VSWR < 1.5:1) |
| Output intercept point | 25 dBm minimum |
| General Characteristics | |
| Impedance | 50 ohms |
| Intermodulation, 2x43 dBm TX carriers, @ BTS port | -153 dBc max in RX band, ANT port |
| Current Alarm Mode (Default mode selected on the absence of AISG packets) | |
| Current Window Alarm mode (CWA) is the default TMA operating mode and can be configured to specific customer requirements. The TMA is configured so that each BTS port is individually powered and monitored via the respective BTS port. Each BTS port sinks additional current to indicate an alarm state in its uplink path. Normal operating and alarm current values are configured independently and are alterable via a field-loadable personality file. | |
| DC supply voltage | 8V to 30V DC, case is DC ground |
| DC supply | Each BTS port powered individually (programmable) |
| Supply current, normal operation | 100 ± 20mA per port (programmable) |
| Supply current, alarm mode | 180 ± 20mA per port (programmable) |
| Power consumption, normal operation | 0.85W @ 7.5V, 3W @ 30V typical |
| Power consumption, alarm mode | 1.4W @ 7.5V, 5.5W @ 30V per port typical |
| AISG Mode of Operation (Auto Selected on Valid AISG 2.0 Frames) | |
| AISG signals can be applied to either the BTS1 or BTS2 port. The TMA unit switches to AISG mode when valid frames are detected on one of the BTS ports. Both LNA's take DC power from the port with AISG frames or, if DC is present on both ports, both channels supply equal power to the TMA. | |
| AISG version | 2.0 (for AISGv1.1, please contact us) |
| Supply current, AISG mode | 55mA @ 30V, 135mA @ 12V |
| Power consumption, AISG mode | 1.5W @ 7.5V, 1.8W @ 30V typical |
| AISG connector | IEC60130-9, 8-pin female |
| AISG connector current rating | < 4A peak, 2A continuous, pin 6 |
| Voltage drop, BTS to AISG port | 1.5V max at 2A |
| Field firmware upgradable | Yes |



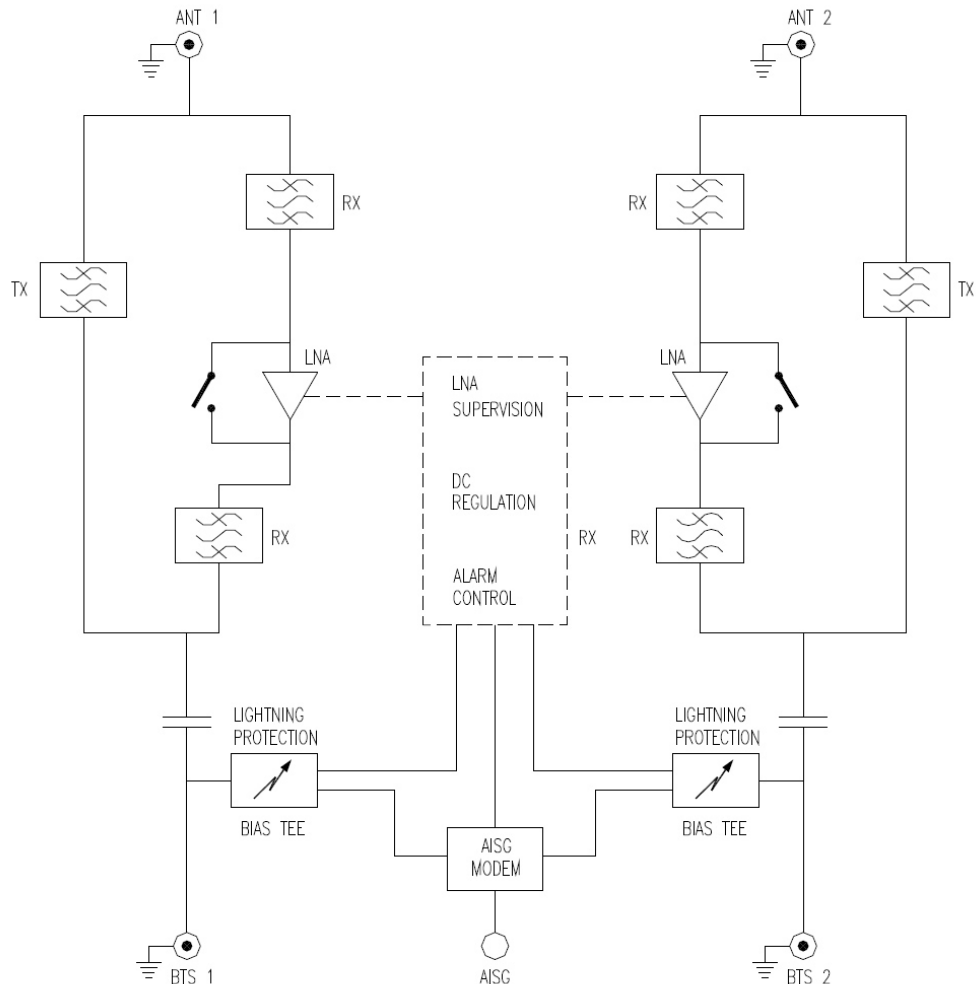
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| Environmental | | |
|-----------------------------|---|---------------------|
| Operating Temperature Range | -40 to +65 °C | -40 to +149 °F |
| Ingress protection | IP67 | |
| Lightning Protection | ±5kA (8/20µs) RF ports, ±2kA (8/20µs) AISG port | |
| MTBF | > 700,000 hours | |
| Compliance | EMC: EN301 489, Ingress ETSI EN 300 019 class 4.1, RoHs | |
| Mechanical | | |
| Dimensions WxHxD | 270 x 73 x 200 mm | 10.6 x 2.9 x 7.9 in |
| Weight | 6 kg | 13.2 lbs |
| Finish | RAL7035, light grey (powder coated) | |
| Connectors | 4 x 7/16 - DIN Female Long Neck, 1 x AISG Female | |
| Mounting | Vertical, Pole / wall | |

Electrical Block Diagram

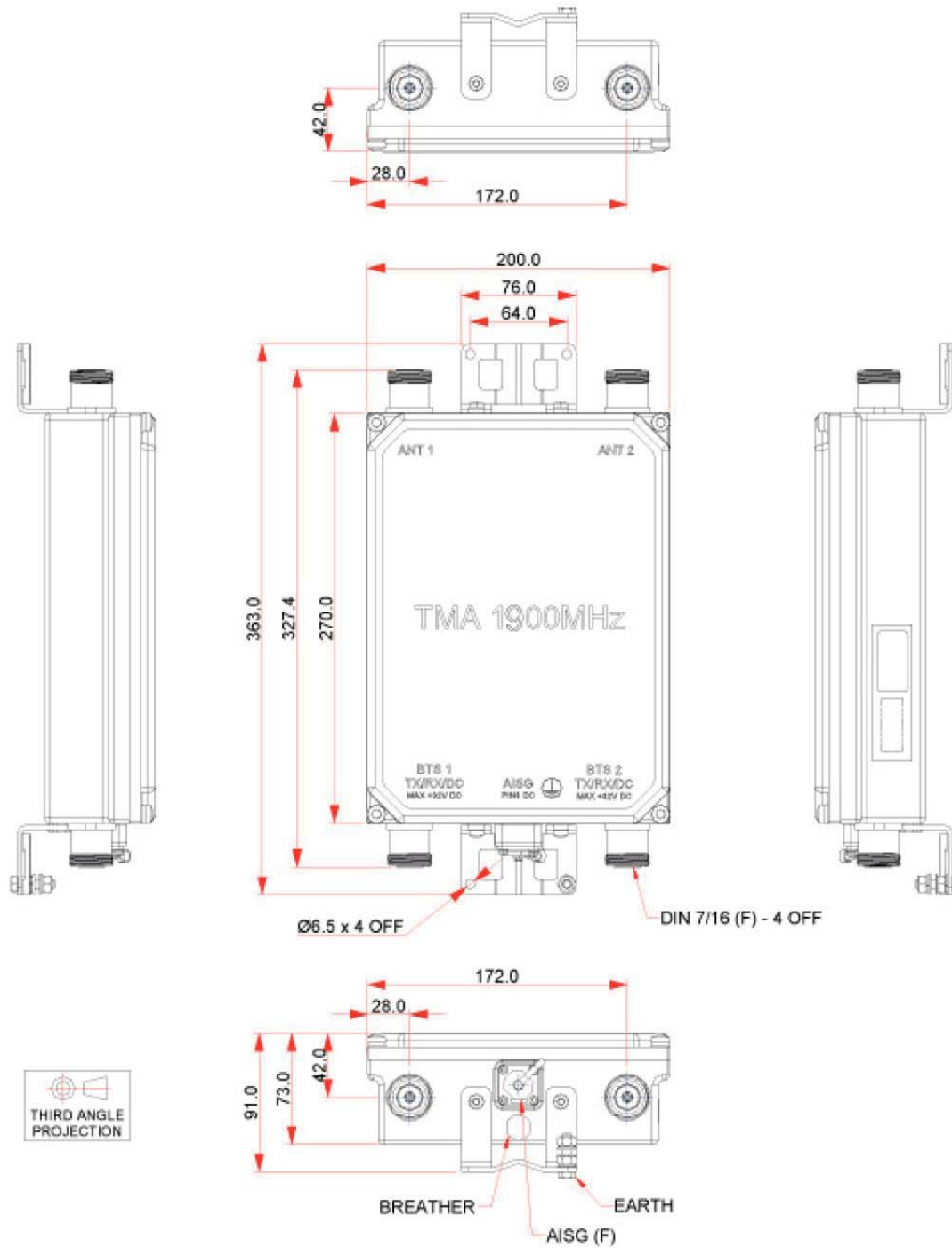


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Mechanical Diagram



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