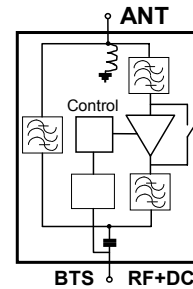


# TTA-GL0001

## GSM900 Full band, Dual Duplex, Single TMA

- Compact, low weight
- Dual duplex
- Full band GSM900
- Lightning protected
- High reliability
- Simple installation
- High linearity and low noise performance
- Increased base station sensitivity
- Fail-safe bypass mode



### TECHNICAL CHARACTERISTICS

#### Downlink (TX) Path

Frequency Band	935 - 960 MHz
Bandwidth	25 MHz
Insertion Loss	0.55 dB max.
Return Loss, all ports	18 dB min
Group Delay variation	20 ns max per 200kHz max
Continuous Average Power	200 W max.
<sup>1</sup> Peak Envelope Power	1.6kW max.
Intermodulation, 2x 43 dBm Tx Carriers at BTS port	-110 dBm max. in RX band

#### Uplink (RX) Path

Frequency Band	890 - 915 MHz
Bandwidth	25 MHz
Gain	16 dB nominal
Gain Variation over band and temperature	±0.6 dB max.
Noise Figure	1.6 dB typ
Return Loss, normal mode, all ports	18 dB min
Insertion Loss, Bypass mode	2.0 dB max.
Return Loss, Bypass mode, all ports	14 dB min (VSWR < 1.5:1)
Group Delay variation	20 ns per 200kHz max.
Input Intercept Point	+10 dBm min.
Maximum Input Power with no damage	<12 dBm

#### Transmission Characteristics (ANT to BTS)

50-800 MHz	30dB min
1000-2200 MHz	50dB min
2200-2750 MHz	30dB min

#### Power Supply and Alarm

DC Supply Voltage	+10 to +15 V DC
DC supply current, normal mode	160 mA at 12V DC
DC supply current, alarm mode	200 to 250 mA at 12V DC (consult us for BTS compatibility) via RF cable at BTS port

DC supply insertion

#### Environmental

Operating Temperature Range	-40 to +65°C
Environmental Sealing - Housing	IP65 Ventilated
Environmental Sealing - Connectors	IP67
Altitude	2,600 m max.
Lightning Protection	IEC61000-4-5 , (8/20us, +/-10kA max, 10strikes each)
MTBF	>500,000 hours

#### Mechanical

<sup>2</sup> Dimensions	217 (H) x 127 (W) x 87 (D) mm
Weight	4 kg
Connectors	DIN 7-16 (F) x 2 long shank
Mounting	Vertical, Pole / Wall

<sup>1</sup> Into 50 Ohm load, 1.6 microsecond on, 2.5% duty cycle.

<sup>2</sup> Excluding connectors, and mounting bracket extension

# TTA-GL0001

## GSM900 Full band, Dual Duplex, Single TMA



### INSTALLATION

TTA-GL0001 is delivered with a wall/pole mounting bracket with a Quick Release metal clamp for 45-178mm diameter poles

Optional: double unit wall/pole mounting bracket kit is available. See opposite. Contact us for this accessory.



### MECHANICAL

