

TMA2148 | MI-120

TWIN TMA LTE 2600

Designed to be deployed with 2600MHz systems, this Tower Mounted Amplifier provides gain in the 2600MHz band and improves system noise figure, thereby saving operational and capital expenditure.

FEATURES

- Improved base station sensitivity through gain in the 2600MHz uplink bands
- Full AISG operation and RET (Remote Electrical Tilt) antenna support
- Excellent noise figure performance
- AISG2.0 compatible
- Compact, low weight



TECHNICAL SPECIFICATIONS

BAND NAME	2600
DOWNLINK	
Passband	2620 - 2690MHz
Insertion loss	0.4dB typical
Return loss	20dB typical, 18dB minimum
Maximum input power	200W (average) / 2000W (PEP)
Intermodulation products	-165dBc typical in RX band at ANT
UPLINK	
Passband	2500 - 2570MHz
Gain	12dB
Gain variation	±1dB maximum
Return loss	16dB minimum
Bypass return loss	12dB minimum
Bypass loss	2.0dB typical
Noise figure	1.4dB typical
Output IP3	+25dBm typical
Maximum input power with no damage	+12dBm
ELECTRICAL	
Impedance	50Ohms
AISG MODE OF OPERATION (AUTO SELECTED ON VALID AISG 2.0 FRAMES)	
AISG signals can be applied to either BTS1 or BTS2 port. The TMA unit switches to AISG mode when valid frames are detected on one of the BTS ports.	
DC supply voltage	9V to 30V DC
AISG version	2.0
Power consumption, AISG mode	< 2W

ENVIRONMENTAL	
For further details of environmental compliance, please contact Kaelus.	
Temperature range	-40°C to +65°C -40°F to +149°F
Ingress protection	IP67
Lightning protection	IEC61312-1, RF: ±5kA (8/20us), AISG: ±2.5kA common mode (8/20us)
MTBF	>12000,000 hours
Compliance	EMC: EN 301 489-8 Safety: EN 62368-1 Operation: ETSI EN 300 019 class 4.1E Storage: ETS 300 019-1-1 class 1.2 RoHS

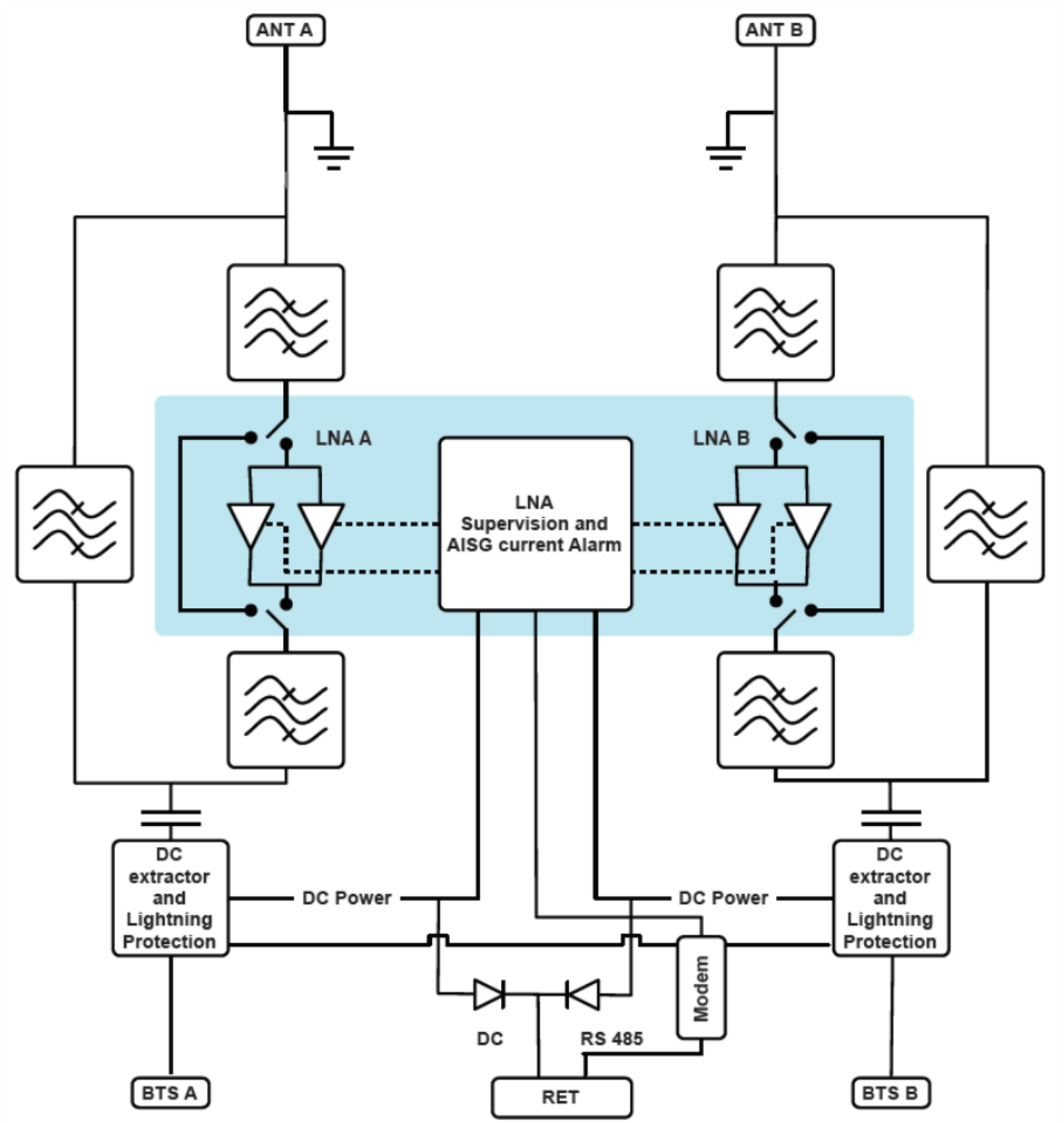
MECHANICAL	
Dimensions H x D x W	176 x 54 x 154mm 6.9 x 2.1 x 6in (excluding brackets and connectors)
Weight	2.4kg 5.29lbs
Finish	Powder coated, NCS 1502-R
Connectors	DIN 7-16 (F) long neck or 4.3-10 (F) long neck (see ordering information) AISG (F)
Mounting	Pole/wall bracket using two metal clamps, suits 40-140mm diameter poles

SHIPPING INFORMATION	
Carton size	330 x 235 x 170mm
Gross weight (including packaging)	2.9kg
Carton Qty / Pallet	72

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS	AISG MODE
TMA2148F01V1-1	TWIN, 2 in / 2 out	BASE MODEL - KAEIUS BRAND	4.3-10 (F)	Refer to AISG MODE OF OPERATION section
TMA2148F01V2-1	TWIN, 2 in / 2 out	BASE MODEL - KAEIUS BRAND	7-16 (F)	Refer to AISG MODE OF OPERATION section
MI-12001	TWIN, 2 in / 2 out	BASE MODEL - MICRODATA BRAND	7-16 (F)	Refer to AISG MODE OF OPERATION section
MI-12031	TWIN, 2 in / 2 out	BASE MODEL - MICRODATA BRAND	4.3-10 (F)	Refer to AISG MODE OF OPERATION section

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

