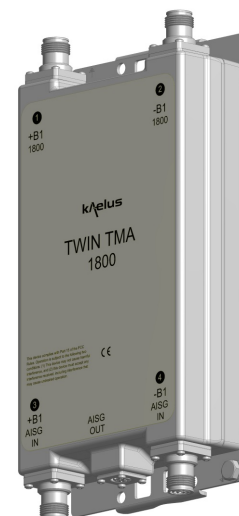


TMA2151 | MI-115

TWIN TMA 1800



Designed to be deployed with 1800MHz systems, this Tower Mounted Amplifier enhances cell uplink coverage through improved system noise figure, thereby saving operational and capital expenditure.

FEATURES

- Excellent noise figure performance
- AISG2.0 compatible
- Compact, low weight

TECHNICAL SPECIFICATIONS

BAND NAME		1800
DOWNLINK		
Passband		1805 - 1880MHz
Insertion loss		0.3dB typical
Return loss		20dB typical, 18dB minimum
Maximum input power		200W (average) / 2kW (PEP)
Intermodulation products		-160dBc in RX band at ANT port
UPLINK		
Passband		1710 - 1785MHz
Gain		12dB
Return loss		16dB minimum
Bypass return loss		12dB
Bypass loss		2.0dB typical
Noise figure		1.5dB typical
Output IP3		+25dBm minimum
Maximum input power with no damage		+12dBm
ELECTRICAL		
Impedance		50Ohms
POWER SUPPLY AND ALARM (CURRENT WINDOW ALARM MODE, DEFAULT)		
DC supply voltage		9.0V to 15V DC, case is DC ground via BTS-RF cable
DC supply current, normal mode		80-130 mA per port
DC supply current, alarm mode		170-180 mA per port
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 maximum

ENVIRONMENTAL	
For further details of environmental compliance, please contact Kaelus.	
Temperature range	-40°C to +65°C -40°F to +155°F
Ingress protection	IP67
Lightning protection	IEC61312-1, RF: ±5kA maximum (8/20us), AISG: ±2.5kA common mode (8/20us)
MTBF	>1,000,000 hours
Compliance	EMC: EN 301 489-50 Safety: EN 62368-1 Operation: ETSI EN 300 019 class 4.1E Storage: ETS 300 019-1-1 class 1.3E Transport: ETS 300 019-1-2 class 2.3 RoHS

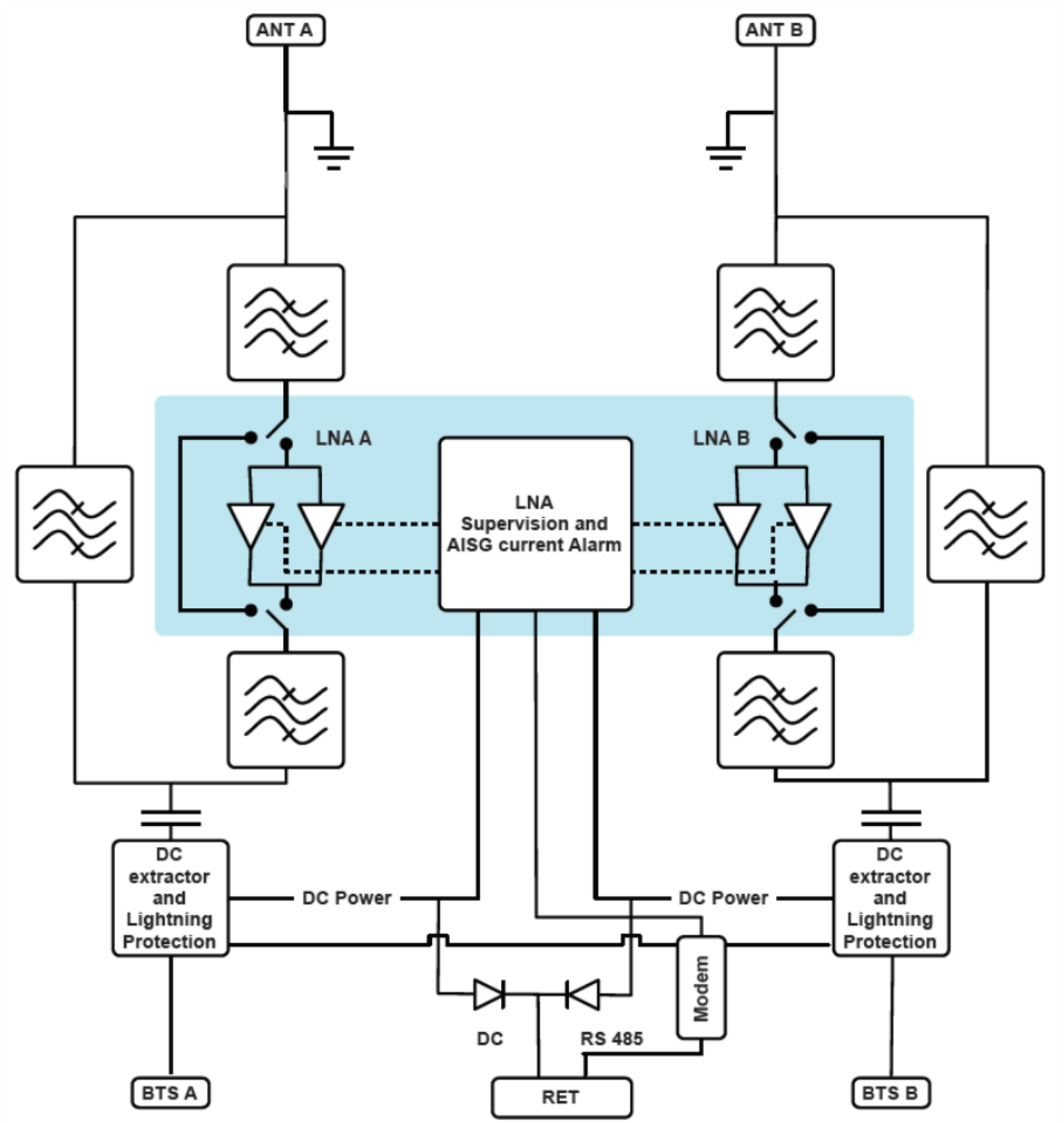
MECHANICAL	
Dimensions H x D x W	168 x 275 x 58mm 6.61 x 10.83 x 2.28in (excluding brackets and connectors)
Weight	4.0kg 8.82lbs
Finish	Powder coated, NCS 1502-R
Connectors	DIN 7-16 (F) long neck or 4.3-10 (F) long neck (see ordering information) AISG (F)
Mounting	Pole/wall bracket using two metal clamps, suits 40-140mm diameter poles

SHIPPING INFORMATION	
Carton size	380 x 250 x 150mm
Gross weight (including packaging)	5.5kg
Carton Qty / Pallet	54

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS	DC/AISG CONFIGURATION
TMA2151F01V1-1	TWIN, 2 in / 2 out	BASE MODEL	4.3-10 (F)	Refer to AISG MODE OF OPERATION section
TMA2151F01V2-1	TWIN, 2 in / 2 out	BASE MODEL	7-16 (F)	Refer to AISG MODE OF OPERATION section
MI-11532	TWIN, 2 in / 2 out	BASE MODEL	4.3-10 (F)	Refer to AISG MODE OF OPERATION section
MI-11512	TWIN, 2 in / 2 out	BASE MODEL	7-16 (F)	Refer to AISG MODE OF OPERATION section

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

