

MI-188

TMA TWIN 800 L-BAND+1800 BYPASS

Designed to be deployed in collocated 800, 1800 and L-Band systems, the Kaelus MI-188 enhances cell uplink coverage in 800, through improved system noise figure, thereby saving operational and capital expenditure.

FEATURES

- Improved base station sensitivity through gain in the 800 uplink
- 2 Antenna ports: one port to low band (800) and one port to high band (1800 and L band)
- Excellent noise figure performance
- Full AISG operation and RET antenna support, AISG2.0 compatible
- Small and light for minimum visual impact
- Passive 1800 Bypass band response for feedline/antenna non-intrusive PIM testing



TECHNICAL SPECIFICATIONS

BAND NAME		800
DOWNLINK		
Passband		791 - 821MHz
Insertion loss		0.3dB typical
Return loss		18dB
Maximum input power		200W (average)
Intermodulation products		-160dBc in RX band at ANT
UPLINK		
Passband		832 - 862MHz
Gain		12dB
Return loss		16dB
Bypass return loss		12dB
Bypass loss		2dB typical
Noise figure		1.4dB typical
Output IP3		25dBm typical
1800 AND L-BAND		
Passband		1427 - 1517MHz & 1710 - 1880MHz
Insertion loss		0.2dB typical
Maximum input power		200W average
Intermodulation products		-160dBc at ANT
ELECTRICAL		
Impedance		50Ohms
AISG MODE OF OPERATION (AUTO SELECTED ON VALID AISG 2.0 FRAMES)		
AISG signals can be applied to the BTS ports. The TMA unit switches to AISG mode when valid frames are detected on either port.		
DC supply voltage		+9.0V to +30V DC
AISG version		2.0
Power consumption, AISG mode		< 2W
AISG connector, current rating		IEC60130-9, 8-pin female

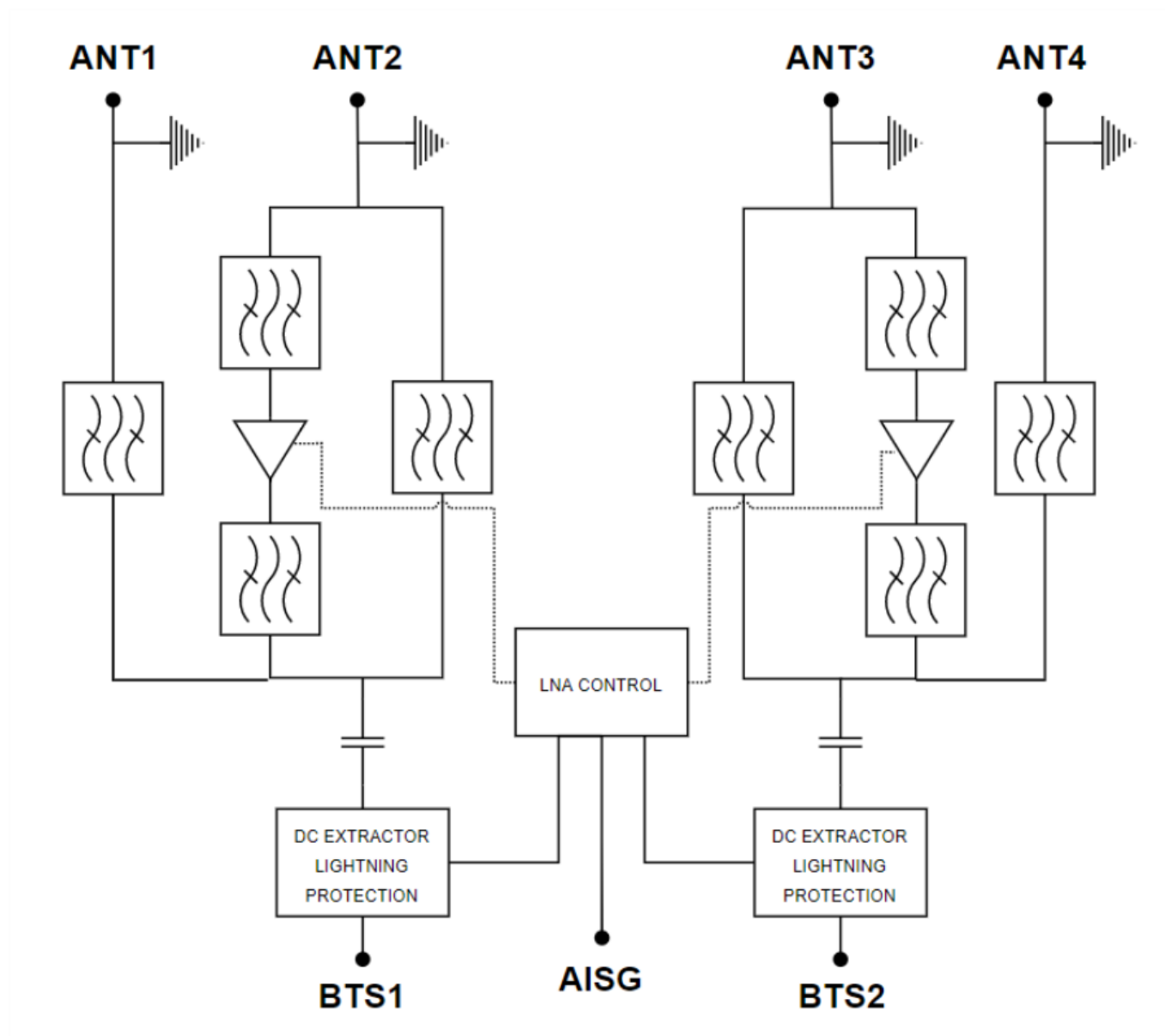
ENVIRONMENTAL	
For further details of environmental compliance, please contact Kaelus.	
Temperature range	-40°C to +65°C -40°F to +149°F
Ingress protection	IP67
MTBF	>1,200,000 hours
Compliance	EMC: EN 301 489-8 Safety: IEC/EN 62368-1 Operation: ETSI EN 300 019-1-4 class 4.1E Storage: ETS 300 019-1-1 class 1.2

MECHANICAL	
Dimensions H x D x W	249 x 123 x 164 mm 9.8 x 4.8 x 6.4in (excluding brackets and connectors)
Weight	TBD
Finish	Powder coated, NCS 1502-R
Mounting	Pole/wall bracket using two metal clamps, suits 40-140mm diameter poles

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS	AISG MODE
MI-18801	TWIN, 2 in / 4 out	BASE MODEL	7/16 (F) 1xAISG	Refer to AISG MODE OF OPERATION section
MI-18831	TWIN, 2 in / 4 out	BASE MODEL	4.3-10 (F) 1xAISG	Refer to AISG MODE OF OPERATION section

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

