

KA-1002

TMA TDD B41 2X2 & 4X4 MIMO

Kaelus B41 (2500MHz) TDD TMA KA-1003 can be deployed as a 2x2 or 4x4 MIMO.

FEATURES

- Improved base station sensitivity through gain in 2500MHz
- Suitable for 5G NR signals
- Full AISG operation and RET antenna support
- Small and light for minimum visual impact



TECHNICAL SPECIFICATIONS

BAND	B41 (2500MHz)
DOWNLINK	
Passband	2496-2690MHz
Insertion loss	1.2dB typical
Return loss	18dB minimum
Maximum input power	40W per channel
UPLINK	
Passband	2496-2690MHz
Gain	12dB
Return loss	18dB minimum
Bypass return loss	18dB minimum
Bypass loss	1.4dB typical
Noise figure	1.6dB typical
Output IP3	+28dBm typical
ELECTRICAL	
Impedance	50Ohms
AISG MODE OF OPERATION	
DC/AISG signal must be applied to the AISG IN port to power up the Low Noise Amplifiers (LNA) in the Uplink path. Each LNA is controlled uniquely by its sub-unit number.	
DC supply voltage	+9V to +30V DC
AISG version	2.0/3.0
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	RF: ±5kA maximum (8/20us), AISG: ±5kA maximum (common mode)
MTBF	1.0Mh
Compliance	EMC: EN 301 489-50 SAFETY: IEC/EN 62368-1 OPERATION: ETSI 300 019-1-4. CLASS 4.1E STORAGE: ETSI 300 019-1-1, CLASS 1.2

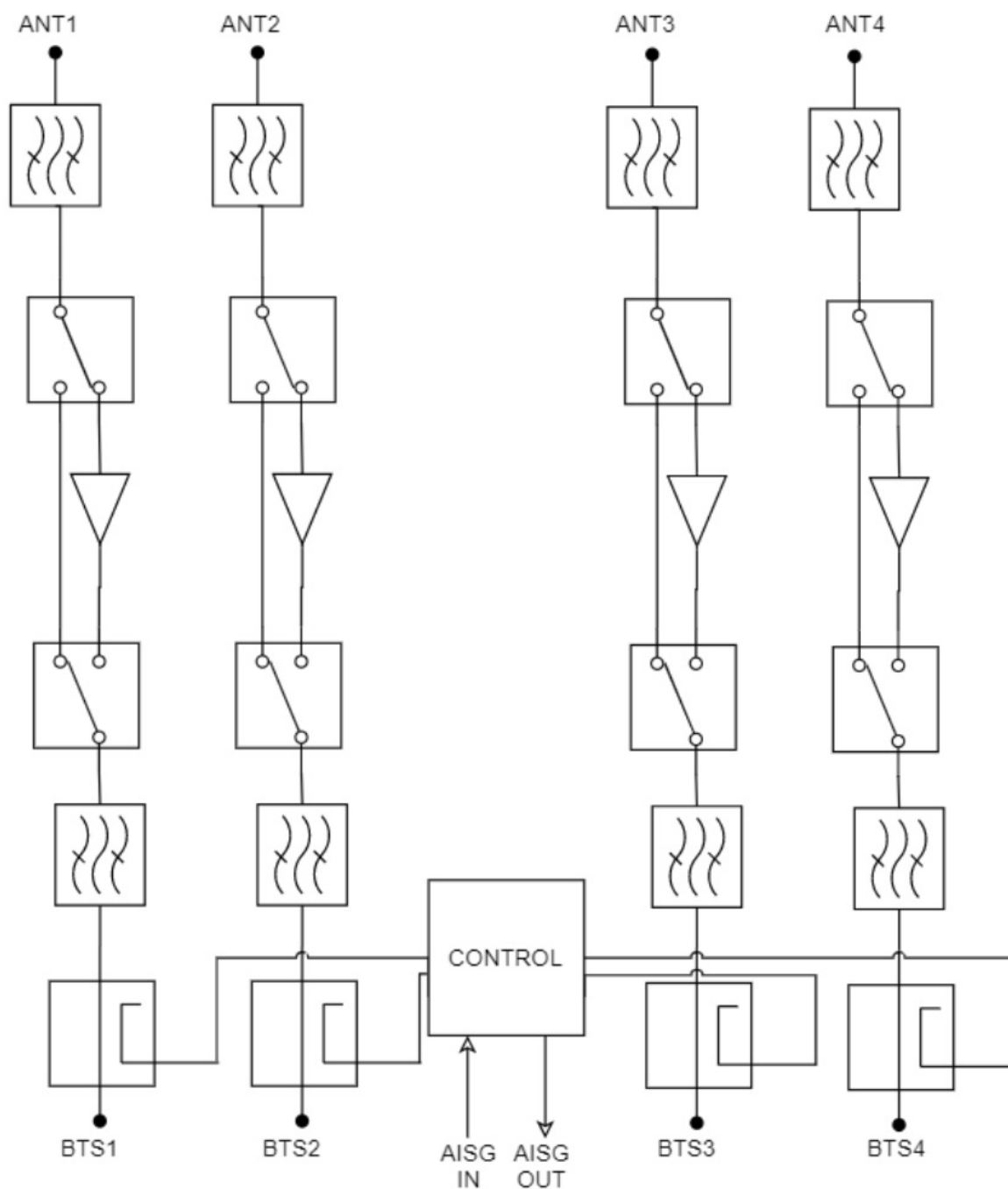
MECHANICAL		
Feature	2x2	4x4
Dimensions H x D x W	180x297x61 mm 7.1x11.7x2.4 in	180x297x96 mm 7.1x11.7x3.77 in
Volume	3.3 L	5.1 L
Weight	4.0 kg 8.8 lb	6.8 kg 15.0 lb
Finish	NCS 1502-R	
Mounting	Pole/wall bracket supplied with two metal clamps 40-140mm diameter poles	

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS	AISG MODE
KA-1002-2041	2x2, 2 in / 2 out	BASE MODEL	NEX10(F)	ONETWO
KA-1002-2031	2x2, 2 in / 2 out	BASE MODEL	4.3-10 (F)	ONETWO
KA-1002-4041	4x4, 4 in / 4 out	BASE MODEL	NEX10(F)	ONEQUAD
KA-1002-4031	4x4, 4 in / 4 out	BASE MODEL	4.3-10 (F)	ONEQUAD

ELECTRICAL BLOCK DIAGRAM

CONFIGURATION: 4x4



MECHANICAL BLOCK DIAGRAM

