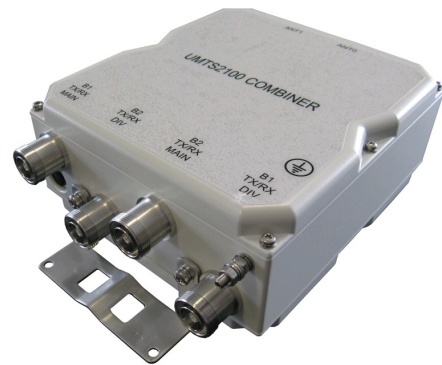


# DBC0036F1V1-1

## TWIN SAME BAND COMBINER 2100

### FEATURES

- Allows two UMTS2100 base stations to share feeders, TMAs and antennas.
- For indoor or outdoor use
- Multiple DC/AISG bypass configurations available
- Small and lightweight
- ROHS compliant



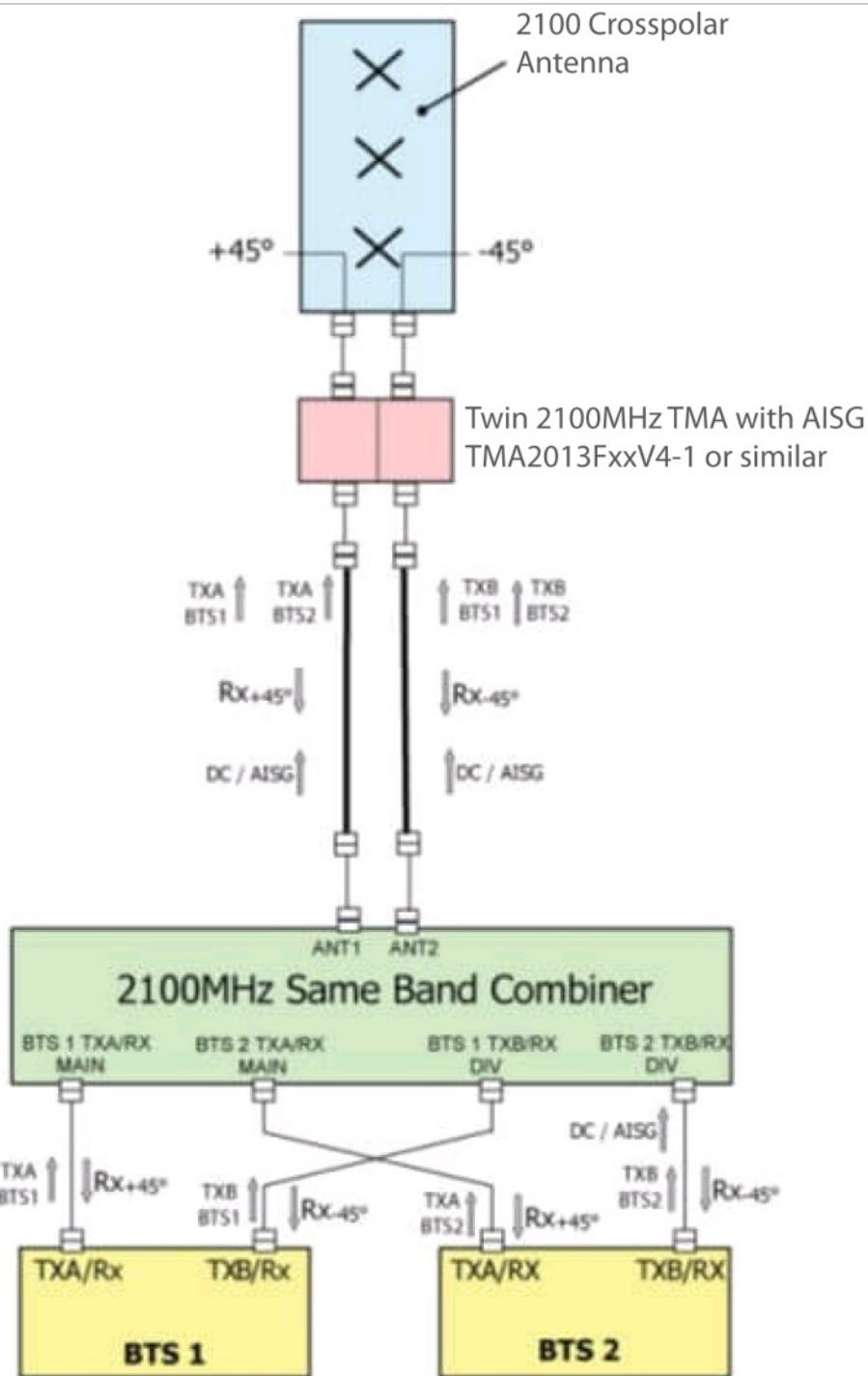
### TECHNICAL SPECIFICATIONS

PORT NAME	B-1 TX/RX	B-2 TX/RX
<b>DOWNLINK</b>		
Passband	2140 - 2150MHz	2160 - 2170MHz
Insertion loss	0.7dB maximum band edge	
Return loss	18dB minimum	
EVM	1% typical, 7% maximum	
Maximum input power	100W (average) / 1kW (PEP)	100W (average) / 1kW (PEP)
<b>UPLINK</b>		
Passband	1950 - 1960MHz	1970 - 1980MHz
Insertion loss	1.5dB	
Return loss	18dB minimum	
EVM	1% typical, 7% maximum	
<b>ISOLATION (B1-TX/RX MAIN TO B-2 TX/RX MAIN PORT AND B2-TX/RX DIV TO B-1 TX/RX DIV PORT)</b>		
B1 TX frequency range	25dB minimum	
B2 TX frequency range	25dB minimum	
B1 RX frequency range	20dB minimum	
B2 RX frequency range	20dB minimum	
<b>ELECTRICAL</b>		
Impedance	50Ohms	
Intermodulation products	160dBc @ 2 x 43dBm (13th order)	
<b>ENVIRONMENTAL</b>		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-20°C to +60°C   4°F to +140°F	
Ingress protection	IP67	
Altitude	2000m   6,500ft	
Operational humidity	0 - 95% without condensation (0.06 litre maximum of water per litre of dry Air)	
<b>MECHANICAL</b>		
Dimensions H x D x W	217 x 239 x 110mm   8.54 x 9.4 x 4.33in (excluding connectors and brackets)	
Weight	7.5kg   16.5lbs maximum	
Connectors	DIN 7-16 (F) x 6 long shank	
Mounting	Pole/wall bracket supplied with two metal clamps for 45-178 mm diameter poles	

## ORDERING INFORMATION

PART NUMBER	DESCRIPTION
x denotes frequency tuning yy denotes DC/AISG options available on request (contact Kaelus for details)	
DBC0036FxV1	Twin Same Band Combiner 2100 type 2, passive, twin no DC/AISG paths fitted
DBC0036FxVyy	Twin Same Band Combiner 2100 type 2, passive, twin various DC/AISG pass option available

**ELECTRICAL BLOCK DIAGRAM**



Note: DC/AISG configuration is selectable at time of manufacture

MECHANICAL BLOCK DIAGRAM

