

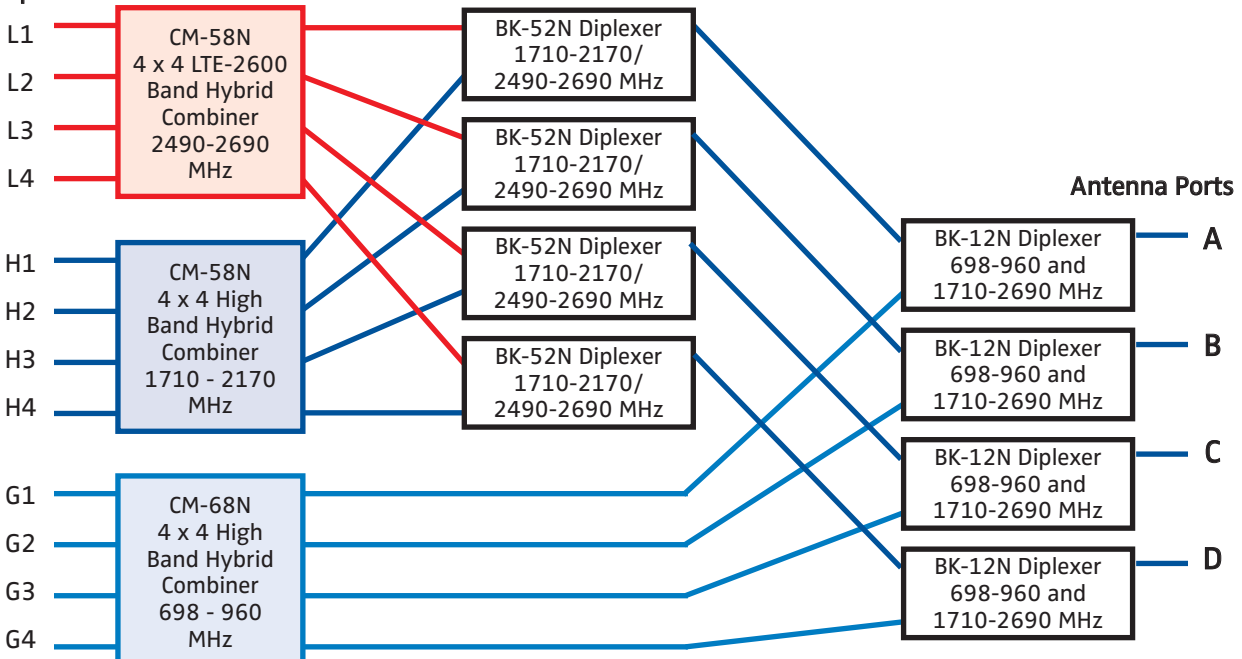
Preliminary Data

- ◆ Input bands for Cellular, WiFi, WiMAX & LTE-2600: 698 to 2700 MHz
- ◆ 12 Inputs to 4 Combined Outputs
- ◆ Guaranteed PIM, and Low Loss
- ◆ High Reliability, RoHS
- ◆ Standard 4RU EIA Rack (7")



These broadband RF Combiner Boxes have been designed to meet the neutral host needs of in-building systems, with low passive intermodulation (PIM). The system combines up to 12 wireless carriers in three operating bands to 4 multiple antenna feeds or distribution cables. Through the use of three 4 x 4 hybrid networks and 8 diplexers, the total loss for each path is less than 1.5 dB, provided all four outputs are utilized. Typical isolation between inputs in the same band is 25 dB, between bands 58 dB. Input/output connectors have been separately grouped for convenience. (09/10)

Inputs



Inputs G1 to G4:	698 - 960 MHz, GSM Band
Inputs H1 to H4:	1710 - 2170 MHz, DCS Band
Inputs L1 to L4:	2490 - 2700 MHz, High Band
Input Isolation:	Within Band: >22 dB Between Bands: >55 dB
Input Return Loss:	>18 dB (>23 dB typical)
Outputs A, B, C, D:	698 - 2700 MHz
Output Return Loss:	<1.4:1
Coupling (In-Out):	7 ± 0.5 dB (all paths)
Power per input:	<60W avg., 3 kW peak
Total power in:	<300W average
Impedance:	50Ω nominal
Environment:	-15°C to +65°C, Indoor
PIM (Intermod):	<-142 dBc (+43dBm x2)
Finish:	Housing: RoHS coated aluminum
Connectors:	Triplate, N
Weight:	33 lbs (15 kg) nominal

Standard Combiner Boxes - all provide 4 combined N(f) outputs

Model Number	Total N(f) Inputs	380 - 520 UHF/Tetra	698 - 793 LTE-700	824 - 960 Cellular/GSM	1710-1880 GSM-1800	1920-2170 GSM-1900/UMTS	2400-2700 LTE/WiMAX	Other Features
KM-90N	8	-	xxxxxxx[4]	xxxxxxx	xxxxxxxxxxxxxxxxxxxx[4]	xxxxxxxxxxxxxxxxxxxx		-
KM-91N	12	xx[4]xx	xxxxxxx[4]	xxxxxxx	xxxxxxxxxxxxxxxxxxxx[4]	xxxxxxxxxxxxxxxxxxxx		-
KM-92N	12	-	xxxxxxx[4]	xxxxxxx	xxxxxxx[4]	xxxxxxx	xx[4]xx	-
KM-93N	16	xx[4]xx	xxxxxxx[4]	xxxxxxx	xxxxxxx[4]	xxxxxxx	xx[4]xx	-
KM-94N	16	-	xx[4]xx	xx[4]xx	xxxxxxx[4]	xxxxxxx	xx[4]xx	-
KM-95N	12	-			xx[4]xx	xx[4]xx	xx[4]xx	-
KM-99N	8	-	xxxxxxx[4]	xxxxxxx	xxxxxxxxxxxxxxxxxxxx[4]	xxxxxxxxxxxxxxxxxxxx		Test Port*

*Provides SMA test port to monitor sum of all outputs (Available on all models to order)

Example Outline
