

Control Station Combiners

700 / 800 / 900 MHz

dbSpectra

- Low profile building block modules
- Transmit and receive from each port
- Enables control stations to be combined
- Enhances system port-to-port isolation
- Provides a wireless link to base stations
- Amplifier for Receive Signals
- 50 Watts input per channel



The Control Station combiner is a trunked mobile radio combiner/multicoupler. This unit has bidirectional radio ports that can be used to reduce antenna requirements from 8 down to 2 antennas (one TX and one RX). This combiner incorporates thermally switched fans which operate only when needed. This unit is also designed to automatically switch the RX path to bypass mode if the amplifier is removed. For optimum performance the unused ports should be terminated with at least a 1 watt N-Type 50 ohm load (Model # DB8926).

ELECTRICAL			
TX		RX	
Frequency Range-MHz:	See table on back page	Frequency Range-MHz:	See table on back page
Frequency Separation:	No Limitations	Rx to Rx Isolation-dB (min/typical):	60/70
Isolation-dB (min/typical)		Rx Gain (with amp)-dB (min/typical):	See table on back page
TX to TX:	60/70	Rx Loss (no amp)-dB (max/typical):	See table on back page
Ant to TX:	45	Return Loss-dB (min):	10
TX Loss-dB:	See table on back page	Additional Field Expansion Hardware:	
Return Loss-dB (min):	14		• 2 or 4 Combiner Modules
Power Per Channel-Watts (CW):	50		• Additional 6 or 8 Ch. Control Station Combiner modules without amps
AC/DC Power:	DC 12V DC @ 1.5 Amps AC 115V AC @ 0.25 Amps		• Cable Kits

* Contact dbSpectra for additional assistance regarding Field Expansion.

MECHANICAL		
Connectors:		N-Female
Dimensions: mm/inches	Height	See table on back page
	Width	482.6 / 19
	Depth	431.8 / 17
Weight:	lbs (with cable kit)	6 CH: 54 (55) 8 CH: 54 (55) 12 CH: 72 (73.4) 16 CH: 90 (91.6) 24 CH: 216 (220) 32 CH: 270 (275)
Finish:		Black



Control Station Combiners

700 / 800 / 900 MHz

dbSpectra

MODEL NUMBER	FREQUENCY	CHANNELS	TX LOSS	HEIGHT	RX WITH AMP	RX WITHOUT AMP
HC111W1-06F	746-806	6	-9.2	1RU	+1.5	-10.5
HC111W1-08F	746-806	8	-11	1RU	0	-12
HC111W1-12F	746-806	12	-13.5	3RU	-3	-15
HC111W1-16F	746-806	16	-15	3RU	-4	-16
HC111W1-18F	746-806	18	-16.5	4RU	-6	-18
HC111W1-24F	746-806	24	-19.5	4RU	-8	-20
HC111W1-32F	746-806	32	-19.5	5RU	-8	-20
HC110T1-06F	764-869	6	-10	1RU	+1.5	-10.5
HC110T1-08F	764-869	8	-11	1RU	0	-12
HC110T1-12F	764-869	12	-13.5	3RU	-3	-15
HC110T1-16F	764-869	16	-15	3RU	-4	-16
HC110T1-18F	764-869	18	-16.5	4RU	-6	-18
HC110T1-24F	764-869	24	-19.5	4RU	-8	-20
HC110T1-32F	764-869	32	-19.5	5RU	-8	-20
HC113T1-06F	806-869	6	-10	1RU	+1.5	-10.5
HC113T1-08F	806-869	8	-11	1RU	0	-12
HC113T1-12F	806-869	12	-13.5	3RU	-3	-15
HC113T1-16F	806-869	16	-15	3RU	-4	-16
HC113T1-24F	806-869	24	-19.5	4RU	-8	-20
HC113T1-32F	806-869	32	-19.5	5RU	-8	-20
HC112U1-06F	896-960	6	-9.5	1RU	+1.5	-10.5
HC112U1-08F	896-960	8	-11	1RU	0	-12
HC112U1-12F	896-960	12	-13.5	3RU	-3	-15
HC112U1-16F	896-960	16	-15	3RU	-4	-16
HC112U1-24F	896-960	24	-19.5	4RU	-8	-20
HC112U1-32F	896-960	32	-19.5	5RU	-8	-20

Control Station Combiner Accessories

dbSpectra offers additional RF site equipment for control station combiner applications. Please consider the use of Transmit/Receive filters, duplexers, and/or dual antennas to ensure the same level of isolation in the antenna network meets or exceeds the port to port isolation provided by the dbSpectra Control Station Combiner unit.

