

# Short Haul Control Station Combiner (100-960 MHz)

8 or 16 Channels

MODEL	HC000-08F	HC000-16F
<b>ELECTRICAL SPECIFICATIONS</b>		
Frequency Range, MHz	100-960	100-960
Frequency Separation, kHz	No limitations	No limitations
Number of Channels	8	16
Isolation (minimum), dB		
TX to TX	60	60
TX to RX	60	60
ANT to TX	30-35	30-35
RX to RX	60	60
Insertion Loss (typ), dB	33 (35 max)	39
Transmitter Return Loss (min), dB	19	19
Receiver Return Loss (min), dB	14	14
Power/Channel - 100% Duty Cycle, Watts	15*	15*
Power/Channel - 40% Duty Cycle, Watts	35*	35*
Power/Channel - 20% Duty Cycle, Watts	50*	50*
<b>MECHANICAL SPECIFICATIONS</b>		
Construction, Finish	Aluminum, Gold	Aluminum, Gold
Input Connector	N(F)	N(F)
Mounting	EIA 19-inch Rack	EIA 19-inch Rack
Temperature Range, degrees	-30 to +60 C	-30 to +60 C
<b>DIMENSIONS</b>		
Width, in(mm)	19 (482.6)	19 (482.6)
Height, in(mm)	1.75 (44.5)	3.5 (88.9)
Height, RU	1	2
Depth, in(mm)	8 (203.2)	8 (203.2)
Net Weight, lb(kg)	12 (5.4)	25 (11.3)
Shipping Weight, lb(kg)	22 (10)	35 (15.9)

\* All components are rated for 150 Watts continuous duty.  
Heat sink is limiting factor on power rating.

## FEATURES AND BENEFITS

- Enables combining of control stations.
- Broadband operation.
- Analog or digital radio compatible.
- One antenna for both transmit and receive.
- Low profile. 1 RU, 19-inch rack mount.
- Transmit and receive on each radio port.
- Enhances system port-to-port isolation.
- Adjustable mounting ears enable vertical or horizontal mounting to save space.

The **short haul** multi control station combiner (CSC) features a very broad frequency range that allow VHF, UHF, and 700/800/900 MHz radios all to connect to a **single** broadband antenna. Any mix of any band can be connected. The units are limited by their power handling capability and present higher loss than the standard CSC units. Be sure to check your control station path budgets to ensure sufficient margin to withstand the loss present by the short haul combiner.

For optimum performance, it is recommended that unused ports be terminated with a 1 Watt N-type 50 Ohm load (model #DB8926).

Supplied with front panel EIA mounting brackets and adjustable EIA brackets for rear support or center mounting on a two-post rack.



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