

POINT-TO-POINT

# Orthomode Combiner 7-40 GHz

HIGH-PERFORMANCE POINT-TO-POINT MICROWAVE COMBINERS

## Overview

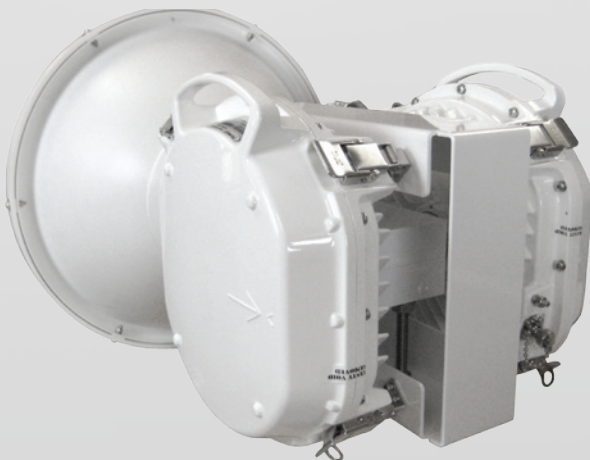
The OMC family of orthomode combiners allow the sharing a single antenna between two ODUs, one using the vertical polarization of the antenna and the other using the horizontal polarization. Both the ODUs and antenna utilize direct mount slip fit waveguide connections with standard latches and additional bolts for the combiner to antenna interface. These combiners are compatible with Trango -S2 and -R2 antenna models.

## Highlights

- » Antenna mount V/H combiner for HP ODUs
- » Low insertion loss of less than 0.5 dB
- » Heavy duty construction
- » High cross polarization
- » Antenna latches and bolts for superior strength

## Applications

- » Dual polarization 2+0 applications
- » XPIC (Cross Polarization Interference Cancellation) applications



## Specifications

MODEL #	Frequency Range	Return loss (dB min)	Insertion Loss (dB max)
OMC-07-HP	7.1-7.7 GHz	17	0.5
OMC-08-HP	7.1-8.5 GHz	17	0.5
OMC-11-HP	10.7-11.7 GHz	17	0.5
OMC-13-HP	12.7-13.3 GHz	17	0.5
OMC-15-HP	14.4-15.4 GHz	17	0.5
OMC-18-HP	17.7-19.7 GHz	17	0.5
OMC-23-HP	21.2-23.65 GHz	17	0.5
OMC-38-HP	37.0-40.0 GHz	17	0.5

### ISOLATION

H/V Isolation	30 dB min
Cross Pol Isolation	30 dB min (40 dB typ)

### ENVIRONMENTAL

Operating Temperature	-40° to +65° C
Temperature Range (Storage)	-40° to +75° C 5%-95% RH non-condensing
Sealing Pressure	3.5 psi
RoHS Compliance	Yes

### MECHANICAL

Size (including radios)	13.78" x 12.01" x 11.22" (35 x 30.5 x 28.5 cm)
Weight (including radios)	30.3 lbs/13.74 kg
Antenna Attachment	M8 Stainless Bolts (4) plus 4 Compression Latches
Material	6061-T6 Aluminum and SAE 1010 Steel (powder coated)
Finish	Corrocoat White Powder Coat



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