

# UHF CONTROL STATION COMBINERS

## 330 - 512 MHz

## THWS45 Series

### Product Features

- Broadband devices intended to combine several single antenna port radios into a single Tx and single Rx antennas
- Reduces infrastructure size
- Simplifies cabling installations
- Provides radio to radio isolation
- Reduces maintenance costs



Specification	THWS45-4B0-1-x	THWS45-8B0-1-x
Frequency band	330 to 512 MHz (-0: 330 – 380 MHz) (-A: 380 – 430 MHz) (-B: 430 – 450 MHz) (-C: 450 – 512 MHz)	330 to 512 MHz (-0: 330 – 380 MHz) (-A: 380 – 430 MHz) (-B: 430 – 450 MHz) (-C: 450 – 512 MHz)
Number of channels	4	8
Antenna ports	One for Tx and one for Rx antennas	One for Tx and one for Rx antennas
Insertion loss Tx and Rx	8.5dB +/- 1dB in Tx; 0dB +/- 2dB in Rx	11.5dB +/- 1dB in Tx; 0dB +/- 2dB in Rx
Min Channel to Channel separation	No limitations	No limitations
Return loss, min, all ports	15dB	15dB
Input power, per port, max	50W	50W
Tx to Tx isolation, min	50dB min	50dB min
Rx to Rx isolation, min	50dB min	50dB min
Tx Antenna to Tx isolation, min	50dB	50dB
Connectors inputs	N(f)	N(f)
Connector outputs	N(f)	N(f)
Temperature range	14° to 122° F • -10° to +50° C	14° to 122° F • -10° to +50° C
Mounting	Brackets for 19" rack	Brackets for 19" rack
Cooling	Fan cooled, forced	Fan cooled, forced
DC power input	+13.6VDC	+13.6VDC
Rack units requirement	1 RU	1 RU
Width	19 inches • 482 mm	19 inches • 482 mm
Depth	16.5 inches • 420 mm	16.5 inches • 420 mm