

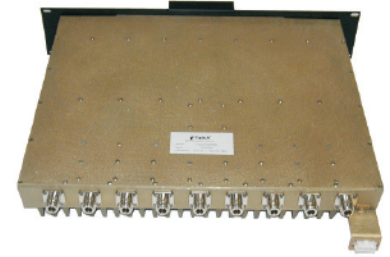
# PUBLIC SAFETY CONTROL STATION COMBINER

## 700 / 800 MHz

**THWS Series**

### Product Features

- Broadband device intended to combine several single antenna port radios into a single Tx and single Rx antennas, reducing infrastructure size
- Simplifies cabling installations
- Provides radio to radio isolation
- Reduces maintenance costs
- Low noise Rx preamplifier is provided to increase site coverage and improve radio sensitivity



THWS80-4B0-1



Specification	Value
Type	Simplex - Duplex Combiners with Rx LNA
Frequency band	746 to 869 MHz (-A: 746 – 805 MHz) (-B: 806 – 869 MHz)
Number of channels	See table below
Antenna ports	One for Tx and one for Rx antennas
Tx insertion loss	See table below
Rx Gain	See table below
Min Channel to Channel separation	No limitations
Return loss, min, all ports	15 dB
Tx to Tx isolation, min	70 dB
Rx to Rx isolation, min	70 dB
Tx Antenna to Tx isolation, min	50 dB
Connectors inputs	N(f)
Connector outputs	N(f)
Temperature range	14° to 122° F • -10° to +50° C
Mounting	Brackets for 19" rack
Cooling	Fan cooled, forced
DC power input	+13.6VDC
Rack units requirement	See table below

Specification	THWS80-4B0-1-x	THWS80-6B0-1-x	THWS80-8B0-1-x	THWS80-16B0-1-x
Number of channels	4	6	8	16
Tx insertion loss	8.0dB	11.5dB	11.5dB	15dB
Rx Gain	6dB	2.5dB	2.5dB	0dB
Rack units requirement	2 RU	4 RU	4 RU	12RU
Dimension	2 RU x 19 x 13.7 inches 2 RU x 482 x 350 mm	4 RU x 19 x 13.7 inches 4 RU x 482 x 350 mm	4 RU x 19 x 13.7 inches 4 RU x 482 x 350 mm	12RU x 19 x 13.7 in 12RU x 482 x 350 mm
Weight	26.5 lbs • 12 kg	48.5 lbs • 22 kg	52.9 lbs • 24 kg	110 lbs • 50kg

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