

I6 In to 4 Out Multi-Band POI



Tone Spread
Solutions for Wireless Signal

1800-3800 MHz

TSMCB-I6I4O-DF

1800 MHz + 2100 MHz + 2600 MHz + 3800MHz

16 in and 4 out multi-band POI (1800~3800MHz)

Multi-band POI (Point Of Interface) is a multi-band combiner that can mix radio frequency signals from many different frequency bands into four loops to reach the antenna system.

The combiner is generally used at the transmitting end. Its function is to combine two or more radio frequency signals from different transmitters into one radio frequency device and send it to the antenna for transmission, while avoiding the mutual influence between the signals at each port.

Combiners generally have two or more input ports and only one output port. Port isolation is a relatively important indicator, used to describe the ability of two signals to not affect each other.

TSMCB-I6I4O-DF multi-band POI is a high-performance I6-input port to 4-port RF combiner that can simultaneously transmit signals from multiple systems to a single indoor signal distribution system. The hybrid combiner features low insertion loss, high isolation and excellent temperature stability.



Key features

- ✧ Use advanced technology to optimize design
- ✧ Multi-band splitter and combiner has small insertion loss, large out-of-band suppression, compact structure, and high reliability;
- ✧ Taking into account future system expansion when designing, ports can be reserved;
- ✧ Optimized design without wasting power signals.
- ✧ Combine 16 input ports into 4 output ports
- ✧ Low insertion loss and low PIM
- ✧ High isolation between inputs of each frequency band

Specifications

Type		Single Unit (16 Ports In- 4Ports Out)
Working Frequency	4 Ports for 1800MHz	1710~1785/1805~1880MHz
	4 Ports for 2100MHz	1920~1980/2110~2170MHz
	4 Ports for 2600MHz	2500~2690MHz
	4 Ports for 3800MHz	3600~3900MHz

Isolation Same Band \geq 23dB, Different Band \geq 50dB

Insertion Loss \leq 8dB

VSWR at BTS (Input) \leq 1.3

PIM3 \leq -150 dBc@ 2 x 20 W

Maximum Input Power 100W per Port

Connector Type DIN-Female

Application Indoor

Impedance 50 Ω

Operating Temperature -25°C to +55°C

Relative Humidity 5% - 95%

Number of BTS Ports 16

Number of Antenna Ports 4

Mounting Structure 19" Rack Mounting