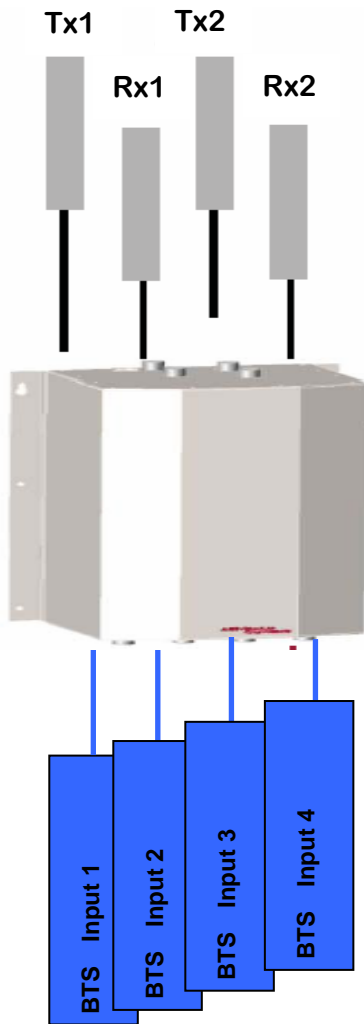


## Multi-Operator Duplexer

Product Code : PW-MOD-series



Type A



Type B



### Combiners upto 4pcs BTS (Tx-Rx signal) into 4pcs output (Tx and RX separately)

This Multi-Network combiner enable 4 Radio Base Station connect to the Combiner

- PW-MOD-800-4-4 for CDMA800mhz BTS
- PW-MOD-1800-4-4 for DCS1800mhz
- PW-MOD-2100-4-4 for UMTS2100Mhz

It combine RF Signal from BTS and at same time Duplex it into 2Tx output and 2Rx output.

This is a highly important function when designing shared antenna In-Building system with Active Wideband Solution (using Fiber Optic).

### Save money by installing our Multi-Operator Duplexer

By utilizing Pacific Wave's Multi Operator Duplexer, you will able to combine RF signal from few BTS and at same time split it into Tx and Rx output. It eliminates in-efficient cost to essamble combination of Hybrid Combiner and Duplexer for each system. By simply connecting the RBSs into combiner, it will immediately render you all the benefits.

### Safe from interference

This Multi-Operator Duplexer constructed using Duplex-Filter & Hybrid system which able to provide adequate in-band isolation and out-band isolation to avoid channel interference.

### Low Insertion Loss & High Power Rating

The Combiner capable of 100watt for each input port with maximum 8dB insertion loss.

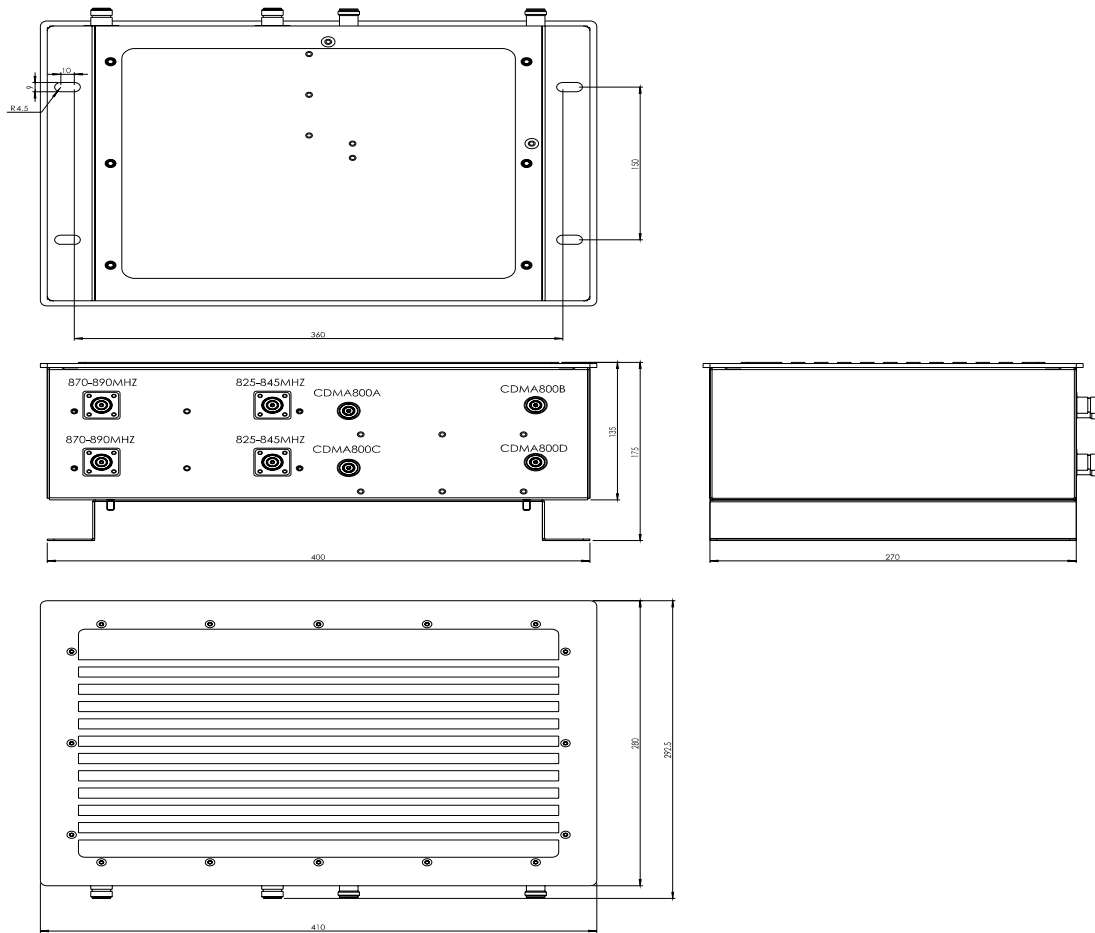
**TECHNICAL SPECIFICATION FOR MULTI-OPERATOR DUPLEXER**

(Below are some Typical data. Please contact us for more detail information)

<b>Product Code</b>	PW-MOD-800-4-4 for CDMA 800Mhz PW-MOD-1800-4-4 for GSM1800Mhz PW-MOD-2100-4-4 for UMTS 2100Mhz
<b><u>Electrical Specification</u></b>	
Passband - Input port :	
For CDMA 800Mhz, Port 1-4 :	Rx: 825-845MHz, Tx: 870-890MHz
For DCS 1800Mhz, Port 1-4 :	Rx: 1710-1785MHz, Tx: 1805-1880MHz
For UMTS 2100Mhz, Port 1-4 :	Rx: 1920-1980MHz, Tx: 2110-2170 MHz
Number of Output Port	2Port (Tx1 and Rx1) 2Port (Tx2 and Rx2)
Insertion Loss :	
Port 1-4 to Tx1/Rx1/Tx2/Rx2	< 8 dB
Input Return Loss	>18 dB
Isolation between input ports :	> 22 dB
Isolation between output ports :	> 80dB
Inter-modulation at 2 x +43dBm	≤ -140dBc
Maximum input power/port	100watt
Impedance in/out	50 Ohm
<b><u>Mechanical Specification</u></b>	
Dimension (WidthxLengthxDepth)	400 x 293 x 175 mm (Type A-Wall Mounted) 482 x 296 x 265 mm (Type B-19" Rack)
Weight (Max) :	<13.5 Kg
Connector for input & output	N-female
<b><u>Environmental Specification</u></b>	
Temperature Range (normal operation)	-30 to +70 °C
Ingress Protection Class	IP40 for Indoor – Type A & B
Humidity	Relative 5-100%

Factory reserves the right to change product specification at any time (if found necessary).

**OUTLINE DRAWING :** Type A – Wall Mounted



**OUTLINE DRAWING :** Type B-19" Rack Mounted

