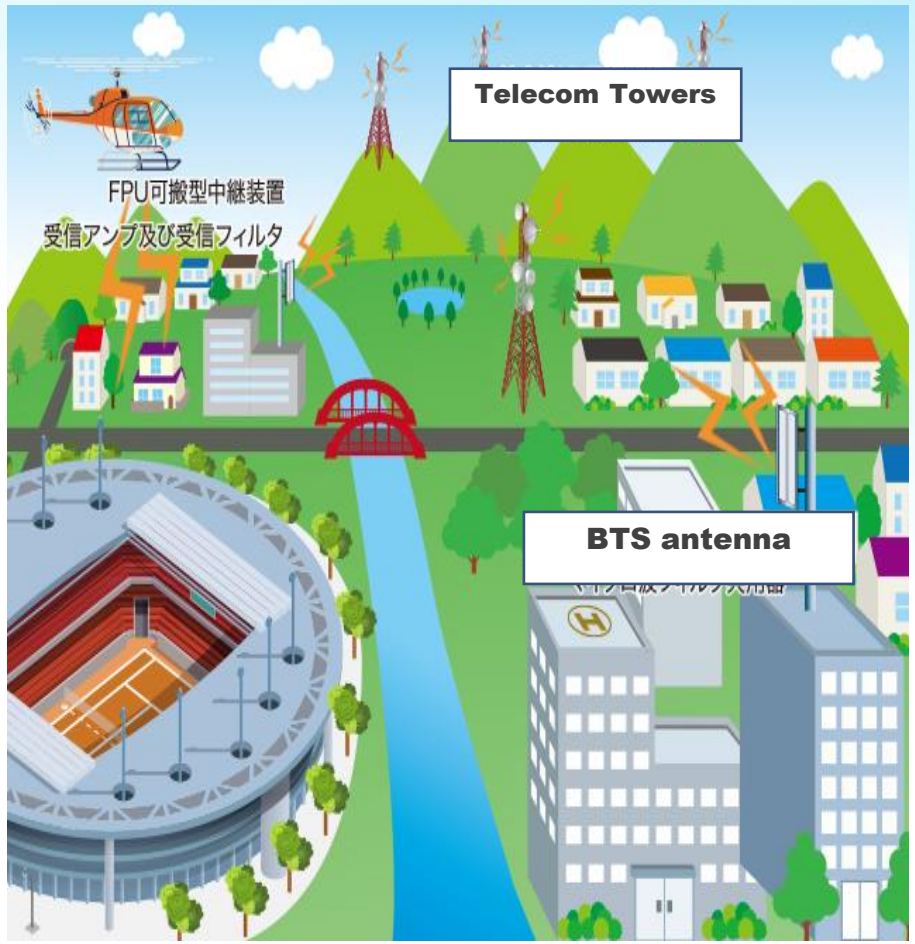
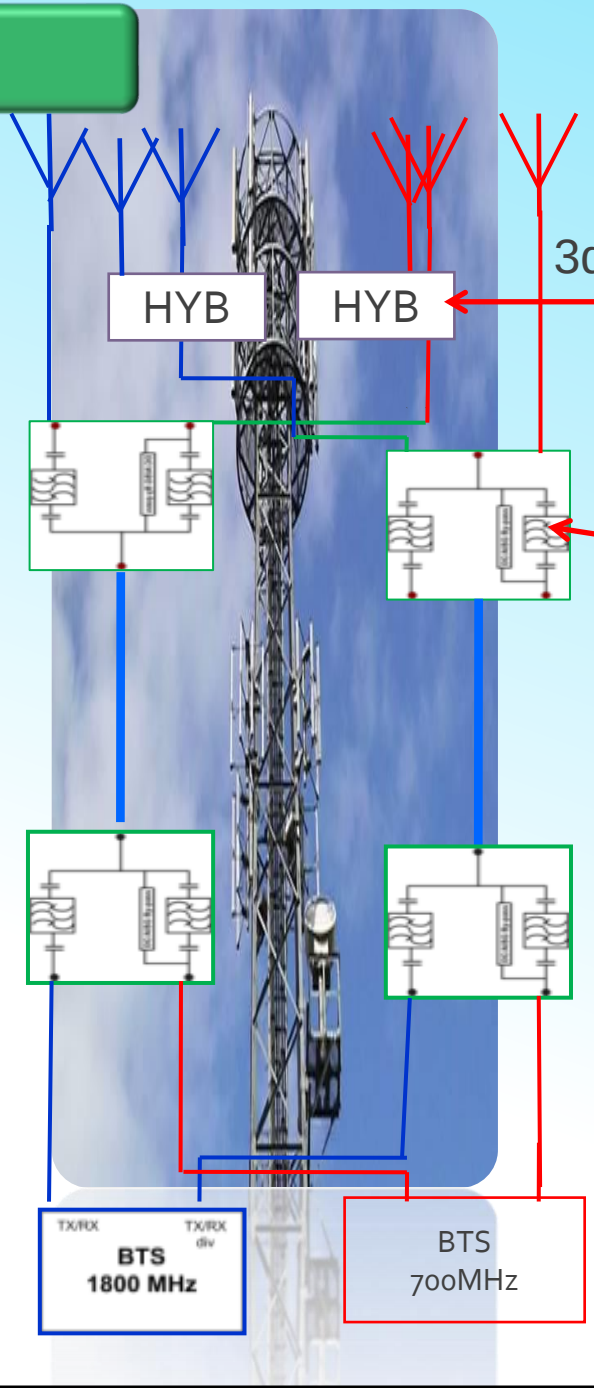
BTS Product Solution





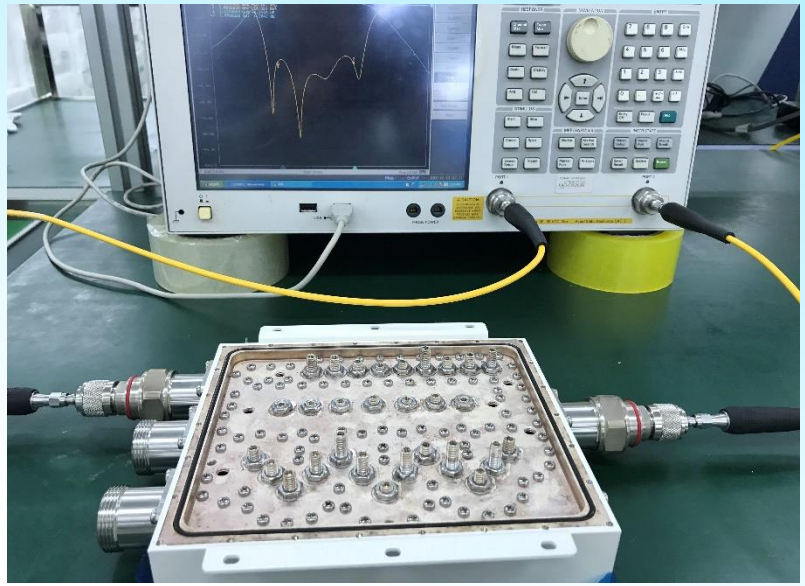
3dB Hybrid Splitter

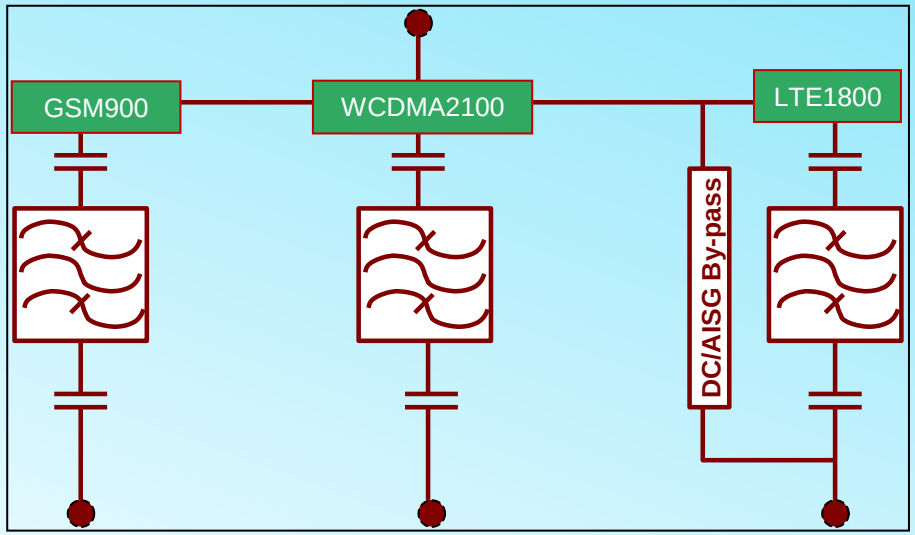
Dual-band Combiner

LTE 700, LTE1800 Dual Band Architecture

- Designed for 4GLTE purpose
- DC/AISG through functions
- 7/16 DIN connectors
- Low PIM
- Low insertion loss

BTS Product Solution





- Available as **a single unit** or for Antennas as **double unit**
- Built in **lightning protection**
- **DC/AISG** through **functions**
- Inter-modulation products better than **-160 dBc (3rd order; with 2x 43dBm)**

CURRENT NETWORK

Triple Band antenna 1800-2100-2600mhz 8 port

1.8GHz LTE RRH BOTH 2*2MIMO

1.8 GHz WCDMA RRH

2.1 GHz WCDMA RRH

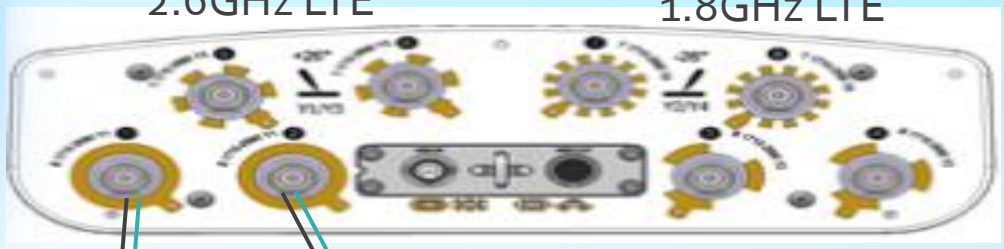
2.6 GHz LTE RRH

Disadvantage :

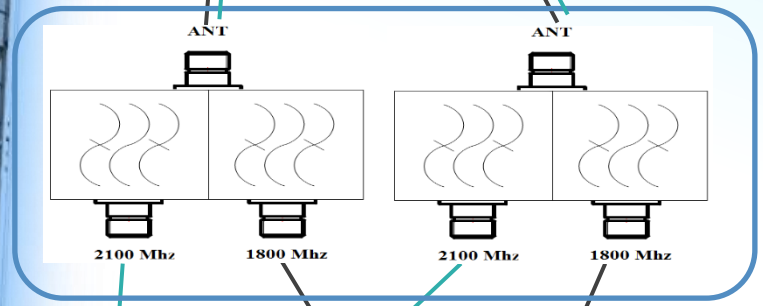
- ❖ **No more port for L2.6 in future**
- ❖ **Have to install 3 more antenna 2600Mhz if upgrade**
- ❖ **This will made more tower load, wind load and look not neat.**
- ❖ **MIMO 2 x 2 only**

Model A

ANTENNA: 8 ports Antenna



1.8GHz DCS /2.1GHz WCDMA



1.8GHz LTE

- 1.8GHz LTE 4*4MIMO
- 2.6GHz LTE 2*2MIMO

- 2.1GHz W-CDMA TRX/RX/ 1.8GHz WCDMA TX/RX RRH

1.8/2.1GHz 4inputs 2output (Dual combiner)

Benefit : when upgrade to L2.6

- Saving 3 antenna for 3 Cell
- Low wind load
- Tower load decrease

FREQUENCY	PIMD	INSERTION LOSS
1710～1880MHzand 1920～2170MHz	-160dBc +43dBm* 2 input	0.4～0.5dB

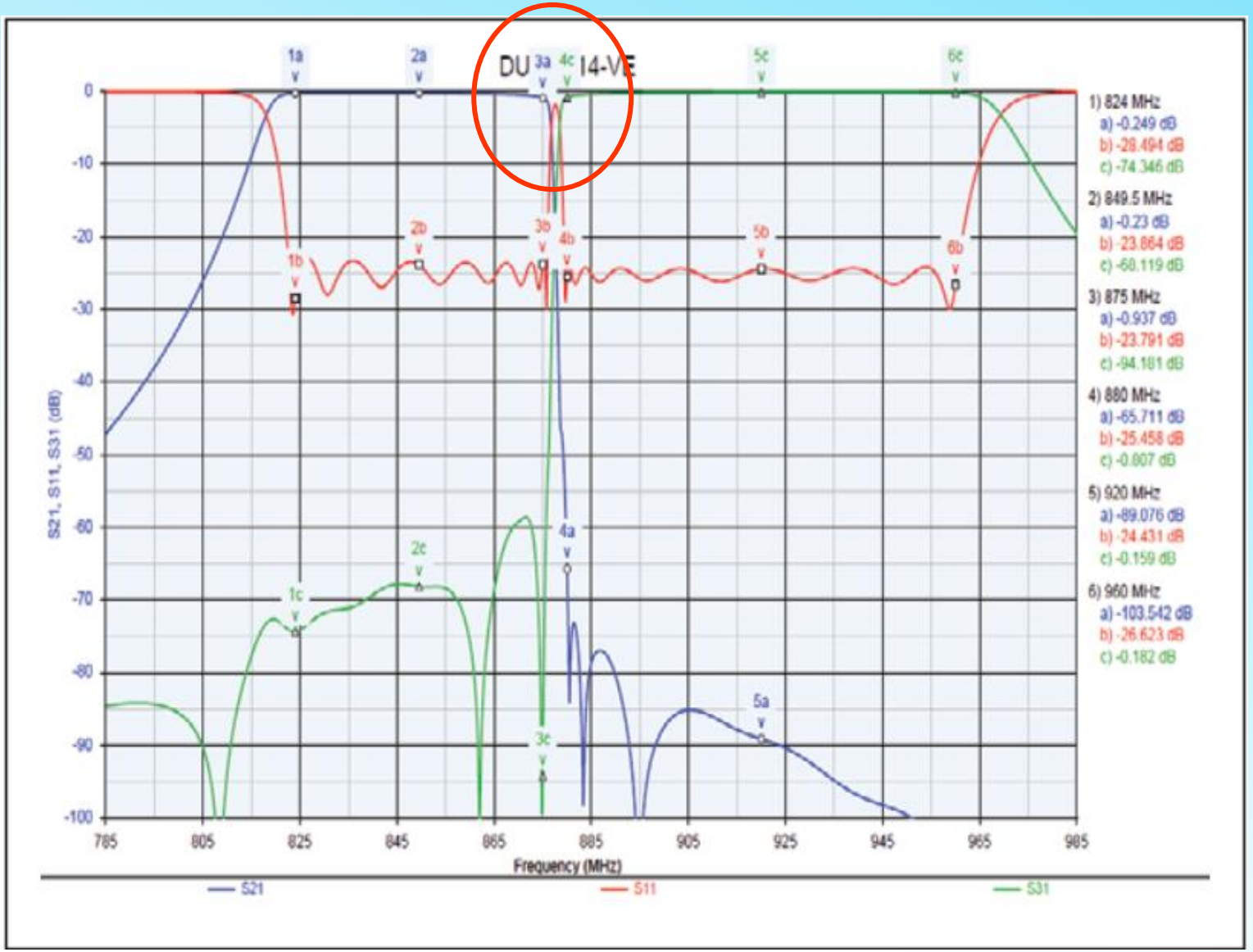
Dual combiner specifications

PRODUCTS	FREQUENCY PORT 1	FREQUENCY PORT 2	Insertion loss	Isolation	PIM	Connectors	Ports
1.8/2.1GHz DUPLEXER	1710-1880MHz	1920-2170MHz	0.5dB	50dB	-160dBc +43dBm x2	7/16 DIN or 4.3-10 DIN -F	4 inputs 2 outputs or 2 inputs 1output
1.8/2.6GHz DUPLEXER	1710-2170MHz	2500-2690MHz	0.4dB	50dB	-160dBc +43dBm x2	7/16 DIN or 4.3-10 DIN -F	4inputs 2outputs or 2inputs 1output

■ 2inputs 1output

■ 4inputs 2outputs

5MHz Separation duplexer between DL and UL



■Feature

- 800MHz 5MHz separation duplexer (50dB isolation)
- DL875MHz/ UL880MHz BAND for Asian operator
- We designed and manufacture narrow separation band between DL and UL signal.