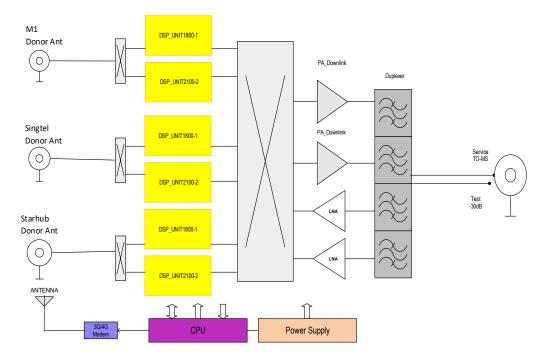


## **Features**

- Maximum composite RF output power of 20W per band
- Balance RF output power allocation of 6.6W per operator for 3 operators
- Self-adaptive and self-detective isolation
- Gain setting of up to 90dB
- Adopting digital filter to increase signal quality
- Selection of operating frequency and BW for up to 20M in LTE and 3G band;
  - 3G Selection of operating channels (5, 10, 15MHz(continuous)+5MHz(non-continuous)) per operator for 3 operators
  - 4G Selection of 1+1 channel per operator for 3 operators
- Small form factor for easy installation
- Built in monitoring system using 3G/4G modem
- Individual operator's donor antenna port and combined operators serving antenna port

## **Function Block Diagram**





## **Technical Specifications**

No.	Description	Reverse(Uplink)	Forward(Downlink)
1	Frequency Range	1710~1785	1805~1880
		1920~1980	2110~2170
2	Support Band	3G (3+1); 4G (1+1)	3G (3+1); 4G (1+1)
3	Band Width (selectable)	0.2-20MHz (LTE)	0.2-20MHz (LTE)
	0.2MHz (LTE) and 5MHz (3G) step adjustment	5-20MHz (3G)	5-20MHz (3G)
5	Out of Band Gain	±400KHz ≤50dB	
		±600KHz ≤40dB	
		$\pm 1$ MHz $\leq 35$ dB	
		±5MHz	≤25dB
6	Max Gain	90 dB	
7	Gain Flatness	$\leq \pm 1.5 dB (p-p)$	
8	ALC Range	≥15dB	
9	Gain Control Range(MGC)	≥31dB (Gain 59dB - 90dB in 1 dB steps )	
		1~20dB@±1dB	
10	Gain Control Accuracy	>20dB@±1.5dB	
11	Total RF Input Power (no damage)	≤+10dBm	≤+10dBm
12	Output Power per Band	UpLink: ≥20dBm	DownLink: 43dBm
13	Output Power Accuracy over all conditions(-10degC to +55degC)	<=+/-3dB	
14	Spurious Emission	9KHz~1GHz≤-36dBm 1GHz~12.75GHz≤-30dBm	

## **Technical Specifications**

No.	Description	Reverse(Uplink)	Forward(Downlink)
15	Noise Figure	≤3.5dB	≤3.5dB
16	Group Delay	≤5 μsec	≤5 μsec
17	Tx / Rx isolation	>=-105dBc	
18	V.S.W.R	≤1.3	≤1.3
19	Impedance	50Ω	50Ω
20	Step Attenuation	31dB / 1dB Step	
21	Power Supply	Input 110 V - 260 V AC, 50 HZ	
22	Power Consumption	350W	
23	Cooling	Heatsink convection cooling	
24	Operating Temperature	-10~+55degC	
25	RF Connector	N ( female )-Type	N ( female )-Type
26	Water Proof	IP 65	
27	Dimension*	513mm x 460mm x 232mm	
28	Weight*	30Kg	
29	MTBF	≥50,000 hours	

