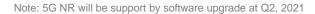


800MHz Digital Band Selective Repeater

mBDA-0833

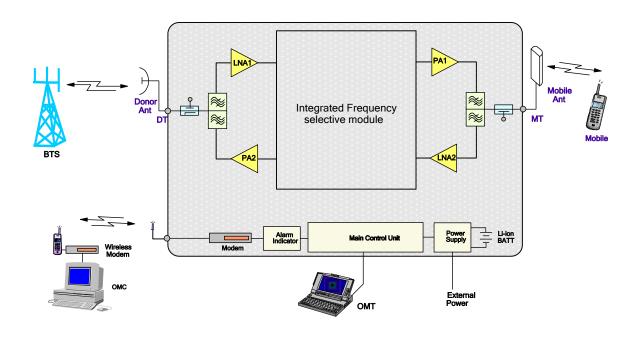
Features

- Up to 4 pass band segments with independent ON/OFF for maximum flexibility.
- Max. 2W total output power, support LTE, NB-IoT (Stand Alone, Guard Band and In-band) and 5G NR*, or hybrid application.
- Offline isolation detection for easy commissioning.
- Friendly and easy OMT interface via RJ45 connection
- Integrated wireless modem for remote monitoring and control.
- Compatible to Comba generic OMT and CMS platform.
- Waterproof, damp-proof and omni-sealed (IP65).





Functional Block Diagram







Electrical		0.5W	1W	2W	
Operating Frequency, Uplink	MHz	832-862			
Operation Frequency, Downlink	MHz	791-821			
Operating Bandwidth Per Sub-band	MHz	0.2-20			
Number of Sub-bands		4			
Total Output Power, Uplink	dBm	17			
Total Output Power, Downlink	dBm	27	30	33	
Maximum System Gain	dB	90			
Attenuation Adjustment Range (1dB step)	dB	0-30			
Pass Band Ripple at FBW, p-p	dB	≤ 4			
Uplink Noise Figure	dB	≤ 5			
System Group Delay	μsec	≤ 6			
Out-of-Band Gain		Compliance with 3GPP TS 36.106			
Intermodulation					
Spurious Emission					
EVM					
ACRR					
PCDE					
Spurious Emission Mask					
Absolute Maximum RF input power	dBm	-10			
Input VSWR		≤ 1.6			
Impedance	Ω	50			
Mechanical					
Dimensions, W x H x D	mm/in	36	361x222x93 / 14.2x8.7x3.7		
Weight (approx.)	kg/lb		7 / 15.4		
Power Supply	VAC		100-240/47-63Hz		
Power Consumption (approx.)	W		60		
Enclosure Cooling		Convection			
RF Connectors		N-Female			
Operating Temperature	°C	-33 to +55			
Operating Humidity		≤ 95%			
Environmental Class		IP65			
		> 50,000			

Note: Typical specification at room temperature;