



Portable Repeater ICS

1800Mhz/2100 Mhz

2G/3G/4G Indoor
Coverage Solutions

Portable Dual Band ICS Repeater

Globalwave repeaters are the best choice dual-band coverage solutions to quickly provide multi-mode mobile services in small to medium sized indoor areas such as houses, hotels, hot spots, shops, offices, meeting rooms, apartments, and so on. Advanced Adaptive Echo Interference Cancellation technology with Globalwave Cognitive Auto Level Control scheme make the repeater able to adapt to time-variant isolation environment so as to provide optimized signal coverage all the time. With innovative plug-and-play enabling technologies and built-in Donor and Service antennas, general users are able to install the repeater by themselves without any professional skill. With optional external antennas and one software programmable Sub-Block per band, the repeater can be applied for diverse scenarios in the field

Significant Features

- Dual Band Design with One Dual Band Repeater Module
- Combinations of GSM/WCDMA/LTE FDD Supported
- 17dBm of Maximum Output Power
- 75dB of Maximum Gain
- One Sub-Block Per Band with Programmable Frequency and Bandwidth
- Adaptive Echo Interference Cancellation to Increase at Least 30dB of Isolation
- Plug-and-Play (PnP) with Built-in Donor and Service Antennas
- Light Weight and Reliable Compact Design
- Low Power Consumption without Any Cooling Fan Inside
- Coverage of A up to 1200m² Apartment or A up to 2000m² Basement with External Antennas
- Inter-band Carrier Aggregation Supported
- Table Stand and Wall Mount





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Portable Dual Band ICS Repeater	
System	Combinations of GSM, WCDMA, LTE
Frequency Band	3GPP Band 3+Band 1/Band 8+Band 1 / Band 20+ Band 1 / Band3+Band8 / Band20+Band8
Programmable BW/Number of Sub-block	0.6MHz - 20MHz(in Steps of 0.2MHz) for GSM / 1 Sub-block Per Band5/10/15/20 MHz for WCDMA/LTE / 1 Sub-block Per Band
Max. Output Power UL/DL	A1: 15/15dBm, A2: 17/17dBm
Max. Gain UL/DL	≧ 75/75dB
Manual Gain Control	≧ 30dB@0.5dB/Step
Automatic Gain Control	≧ 25dB
Gain Flatness	≧ 3dBpp, Typically , ≧ 4dBpp at Band Edge for Band 8 & Band 20
Group Delay	GSM/WCDMA: ≧ 6μs, LTE: ≧ 4.5μs
UL/DL EVM	GSM/WCDMA: ≤ 10% (at Max. Output Power), LTE: ≤ 8% (at Max. Output Power)
UL Noise Figure	≧ 8dB (at Max. Gain)
VSWR	≧ 1.8
Tx/Rx Isolation (per port)	> 90dBc
Max. Input Power Without Damage	≧ 0dBm (UL&DL)
Frequency Stability	GSM: Compliant to ETSI EN 300 609-4
Out of Band Gain	WCDMA: Compliant to 3GPP TS 25.106LTE:
Spurious Emission	Compliant to 3GPP TS 36.106
Unwanted Emission (Emission Mask)	GSM: N/A
Input Intermodulation	WCDMA: Compliant to 3GPP TS 25.106LTE:
Output Intermodulation	Compliant to 3GPP TS 36.106
Adjacent Channel Rejection Ratio	
Intermodulation	GSM: Inband: ≤-36dBc @ 30KHz, WCDMA/LTE: N/A
PCDE	WCDMA: ≧ -35dB, GSM/LTE:N/A
ICS Capability	GSM/WCDMA: ≧ 30dB (EVM ≧ 10% at Max. Gain)LTE: ≧ 30dB (EVM ≧ 8% at Max. Gain)
Built-in Donor&Service Antenna	Antenna Gain ≧ -5.5dBi for Frequency Band < 1700MHzAntenna Gain ≧ 5dBi for Frequency Band > 1700MHz Switch Type with External Donor and Service Antenna
RF Connector	SMA Female, BS Port x1, MS port x1
Impedance	50 Ω
Power Supply	100~240ACV, 50/60Hz
Power Consumption	A1: ≤ 15W, A2: ≤ 20W
Dimensions	198mm x 160mm x 69mm
Weight	≧ 1.2kgw
IP Rating	IP40
Operating Temperature	-10°C ~ +55°C
MTBF	50,000 hrs
Automatic Shut-down Function	RSSI Overpower/Underpower Shutdown, Isolation Shutdown
LED Indicators	Each Band has LED x 12 as mentioned below: RSSI: Green LED x4 to Indicate DL Received Power StrengthAGC: Red LED x1 to Indicate AGC Out of Range Alarm ISO: Red LED x1 to Indicate Isolation Alarm Power: Green LED x1 to Indicate The Unit Is Operating Sleep: Green LED x1 to Indicate UL Transmission Mute Output Power: Green LED x4 to Indicate DL Output Power
Local Control	OMT over Micro USB or BT(Optional)

*Specifications are subject to change without notice