

G-Wave Public Safety Bi-Directional Amplifiers

Dual Function Class A & B

700 & 800 MHz - Available in Single and Dual Band

Features

- Digital Filtering via FPGA Technology
- Field Programmable to Channel or Band Selective Out of the Box
 - Upgradable from Single to Dual Band, 1/2W to 2W, or Both!
- Made in the USA!
- Compatible with P25 Phase I & II, NXDN, DMR, Conventional, Analog and Simulcast Systems
- Graphic User Interface for Remote Monitoring and Maintenance
- Uplink Squelch per Channel and per Band
- Built in Isolation Testing and Oscillation Detection Circuitry
- FirstNet Supported
- NFPA / IFC Compliant
- FCC Certified
- UL2524 Listed with SGS



Specifications	700/800 Single or Dual Band + FirstNet							
	700 + FirstNet		800		700/800 + FirstNet			
Frequency Range UL [MHz]	788 - 805		806 - 824		788 - 824			
Frequency Range DL [MHz]	758 - 775		851 - 869		758 - 775 / 851 - 869			
Bandwidth (Channelized)	12.5kHz, 25kHz, 37.5kHz, 50kHz, 62.5kHz, 75kHz							
Group Delay (Channelized)	12.5kHz	25kHz	37.5kHz	50kHz	62.5kHz	75kHz	100kHz	150kHz
	61.5µS	35.0µS	25.5µS	21.0µS	18.0µS	16.0µS	13.5µS	11.5µS
Bandwidth (Broadband)	100kHz up to Full Band in 50kHz Steps							
Group Delay (Broadband)	3.5 - 6.5 µS depending on bandwidth							
Number of Channels/Bands	32 Channels + FirstNet + 1 Band >100kHz		32 Channels + 1 Band >100kHz		32 Channels + 2 Bands >100kHz, per band			
Composite Output Power [DL]	+27 dBm or +33 dBm per band							
Composite Output Power [UL]	+27 dBm							
Gain	85 dB							
Attenuation	30dB per band in 1dB steps							
Noise Figure	9.0 dB (Max)							
Maximum Input Power	+0 dBm UL / +0 dBm DL							
UL Squelch	Programmable per band and per channel							
Power Supply	110VAC, 50/60 Hz / +24VDC & -48VDC							
Power Consumption	62W		62W		80W			
Operating Temperature	-13° to 131° F							
Weight	52.9 lbs / 24kg							
Dimensions	17.7" x 17.3" x 5.1"							

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Description		Part Number
<i>DC Power (For Power Provided via Battery Backup)</i>		
700 MHz + FirstNet:	+27dBm Composite Output Power, DC	BDA-7-2727-85D
700 MHz + FirstNet:	+33dBm Composite Output Power, DC	BDA-7-2733-85D
800 MHz Only:	+27dBm Composite Output Power, DC	BDA-8-2727-85D
800 MHz Only:	+33dBm Composite Output Power, DC	BDA-8-2733-85D
700/800 MHz + FirstNet:	+27dBm Composite Output Power, DC	BDA-78-2727-85D
700/800 MHz + FirstNet:	+33dBm Composite Output Power, DC	BDA-78-2733-85D
<i>AC Power (For Power Provided Direct from Building)</i>		
700 MHz + FirstNet:	+27dBm Composite Output Power, AC	BDA-7-2727-85A
700 MHz + FirstNet:	+33dBm Composite Output Power, AC	BDA-7-2733-85A
800 MHz Only:	+27dBm Composite Output Power, AC	BDA-8-2727-85A
800 MHz Only:	+33dBm Composite Output Power, AC	BDA-8-2733-85A
700/800 MHz + FirstNet:	+27dBm Composite Output Power, AC	BDA-78-2727-85A
700/800 MHz + FirstNet:	+33dBm Composite Output Power, AC	BDA-78-2733-85A
<i>NFPA / UL2524 Accessories</i>		
	12 Hour Battery Backup	BBU-A-55AH
	24 Hour Battery Backup	BBU-A-100AH
	Remote Annunciator w/ Dry Contacts for Connection to FACP	AP-B-UL
	Remote Annunciator w/ Direct Connection to BBU Only	AP-A-UL



- For pricing and lead-times, please contact G-Wave Sales at Info@GwaveRF.com
- For Class B systems, alternatives are available ranging from +20dBm to +37dBm
- Fiber systems and custom RF components available by request
- Full iBWave design services offered with typical turnaround of 3-4 days from receipt of all information