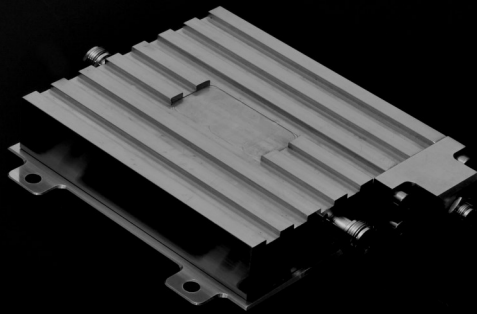


Dual Band Cellular Amplifier



The Dual Band unit is a pre amplifier used to increase cellular signal where the incoming level is weak on the donor side. It can also be used as an inline amplifier in series with our complete line of XPANDAcell repeaters where the area fill antennas require additional gain.

Typical applications include enhancing cellular reception inside concrete and/or metal structures. Cellular amplification inside large buildings, hospitals, government complexes or just about any location with limited or non-existent cellular reception.

The Pre Amplifier/Inline Amplifier is proudly manufactured in North America to the highest engineering and component standards providing the most powerful and reliable cellular amplifier in its class.

- Dual Band Amplifier for cellular bands
- Can be ordered as a single band Amplifier to conserve power
- Fixed gain of either 15 **or** 20 dB
- Maximum Power Output: +24 dBm
- Maximum Input Signal: 0 dBm. Input signal bypass mode when the input level exceeds 0 dBm.
- Used as Pre Amplifier for additional gain between donor antenna and cellular repeater
- Used as Inline Amplifier for additional signal gain on long cable runs to area fill antenna
- Also used as Inline Amplifier with power dividers
- Used in series with RPT-3000/4000/9000 family
- Can be used with other less powerful signal boosters
- Amplifies cellular signal for Voice and Data services
- Supports 700 Lower, 700 Upper, 800, 850, 900, 1800, 1900 **or** 2100 MHz cellular service
- Simple and rapid deployment
- No programming knowledge required
- Indoor and outdoor installations
- Waterproof IP68 enclosure with AC power supply or DC Power over Coax
- External AC Power - 110-230 VAC 50/60 Hz wall adapter
- DC Power - requires 5 watts, voltage range 12-30 VDC. Uses DC Power Injector (order separately).
- DC Power Injector/Bias Tee - 1 amp rating (2, 3 and 4 amp option available for standalone)
- Bias Tee - IP68/NEMA sealed power plug/jack supplied
- Bias Tee - Internal current limiter (open circuit if rating is exceeded. Will auto reset if current load is reduced.
- Low power requirements - 5 watts
- Extreme temperature capability / -40° to +55° Celsius
- 2 Year Warranty



Ordering Options

Frequency Range Options:

LTE 700 AT&T
LTE 700 Verizon Wireless
LTE 700 AT&T & Verizon Wireless
LTE 700 AT&T & Cell 850
LTE 700 Verizon Wireless & Cell 850
LTE 700 AT&T & PCS 1900
LTE 700 Verizon Wireless & PCS 1900
LTE 700 AT&T & AWS 2100
LTE 700 Verizon Wireless & AWS 2100
Cell 850 & PCS 1900
GSM 900
GSM 900 & GSM 1800
GSM 900 & UMTS 2100
GSM 1800 & UMTS 2100
DC Injector (1A, 12-30 VDC)

Model Numbers:

PA-SB-7AT-NF-XX-YY
PA-SB-7VZ-NF-XX-YY
PA-DB-7AV-NF-XX-YY
PA-DB-7A8-NF-XX-YY
PA-DB-7V8-NF-XX-YY
PA-DB-7A19-NF-XX-YY
PA-DB-7V19-NF-XX-YY
PA-DB-7A21-NF-XX-YY
PA-DB-7V21-NF-XX-YY
PA-DB-819-NF-XX-YY
PA-SB-900-NF-XX-YY
PA-DB-918-NF-XX-YY
PA-DB-921-NF-XX-YY
PA-DB-1821-NF-XX-YY
BIASTEE-1A-1230

Ordering note: XX is Power (AC or DC); YY is Gain (15 or 20)

Technical Specifications

Frequency Range Options:

Bidirectional System Gain:

RF Connectors :

Power Supply (AC):

Power Supply (DC):

Operating Temperature:

Unit Size :

Weight:

Enclosure Type:

700/800/850/900/1800/1900/2100 MHz

698-716/728-746 MHz (AT&T LTE lower band)

746-757/776-787 MHz (VZW LTE upper band)

806-821/851-866 MHz (iDEN 800)

824-849/869-894 MHz (Cell 850)

890-915/935-960 MHz (GSM 900)

1710-1785/1805-1880 MHz (GSM 1800)

1710-1755/2110-2155 MHz (AWS 2100)

1850-1910/1930-1990 MHz (PCS 1900)

1920-1980/2110-2170 MHz (UMTS 2100)

15 dB or 20 dB

50 Ohm N Type, Female

110-230 VAC 50/60Hz 5 Watts

12-30 VDC - DC connector IP68 rated

-40°C - +55°C

5.27" x 5.78" x 1.25", 13.4 x 14.67 x 3.17 mm

2.2 lbs, 1 kg Typical

Waterproof IP68 Machined Aluminum

For more information:

XPANDAc^{ell}

Tel: 1-855-XPANDAc^{ell} Fax: 1-410-583-1704

International: 1-410-327-2306

sales@xpandacell.com www.xpandacell.com

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