

PowerMax™ LARGE BUILDING REPEATER



80dB GAIN 3 WATT WIRELESS REPEATER SYSTEM

LARGE HOMES | OFFICES | COMMERCIAL BUILDINGS
RETAIL STORES



Complete System 4KLBR-100U

Designed for commercial applications, Digital Antenna's Large Building Repeater is the ideal solution for office buildings, retail stores and large homes where cell phone service is poor or non-existent indoors. With a coverage area up to 20,000 square feet and unlimited user capability, it is the most powerful PowerMax™ wireless repeater with microprocessor control for optimum signal conditioning and maximum signal gain.

DUAL BAND: use with all North American cell phones operating on 850 or 1900 MHz (except Nextel or iDEN).

NEW

4KLBR-100U System Includes:

- 3 watt, 80dB gain cellular repeater (DA4000LBR)
- External 10dB gain antenna (489-DW)
- Internal 9dB gain antenna (426-PW)
- 30' cable for internal antenna (240-30NN)
- 100' cable for external antenna (DA440)
- Type N male connectors for 100' cable (Qty 2 - DA473)
- 110 VAC power supply (DP830)

4KLBR-100U 80dB Gain System (available Q1 2007)

- In-Building Application:** Multiple rooms (up to 20,000 square feet) in a large home or office.
- Range/Performance:** Enhances unlimited cell phones 30'-75' from inside antenna*.
- Advantage:** Wirelessly amplifies an unlimited number of cell phones.
- Requirement:** 60' separation plus a structure between directional inside and outside antennas.

See website for installation instructions www.digitalantenna.com

FCC & IC approved to amplify all North American cell carriers operating on 850 and 1900 MHz



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PRODUCT TECHNICAL SPECIFICATIONS



80dB GAIN 3 WATT WIRELESS REPEATER SYSTEM

SYSTEM MODEL NUMBER: 4KLBR-100U

Repeater Unit	P/N DA4000LBR
Frequency	Uplink: 824-849 MHz and 1850-1910 MHz Downlink: 869-895 MHz and 1930-1990 MHz
Modulations	All
Max Output Power	3W (824-849 MHz), 2W (1850-1910 MHz)
IP3	53dBm
Dynamic Variable Gain	85dB Max
Receive Sensitivity	-127dBm
Impedance	50 ohms
Noise Figure	<6dB
Power Consumption	Standby 8 vdc/1A, Uplink 8 vdc/3A
Internal Fuse	5A
FCC Approved	FCC ID: PZODA4000LBR
Industry Canada Approved	IC ID: 4260A-DA4000LBR
Dimensions	9" l x 6" w x 2" h (228 mm x 152 mm x 51 mm)
Weight	32 oz (.91 kg)
RF Connections	Outside & Inside Antenna Port: Type N female
DC Power Connector	Coaxial ID = 2.5 mm, OD = 5.5 mm
Indicator	Microprocessor controlled LCD and colored LEDs
Power Switch	Slide switch toward LED = ON

Inside Antenna	P/N 426-PW
Radiation Pattern	Directional
Gain	9dBi
Beam Width	H 60° V 55°
Ratio front/back	> 20dB
Bandwidth VSWR	< 1.5:1 = 810 - 950 and 1800 - 1980 MHz
Impedance	50 ohms
Max Input Power	150 watts
Dimensions	8.5" l x 7" w x 1.7" h (210 x 180 x 43 mm)
Weight	1.5 lb (.7 kg)
RF Connector	Type N female
Wind Rating	N/A
Installation	Supplied wall bracket

Outside Antenna	P/N 489-DB
Radiation Pattern	Directional
Gain	10dBi
Beam Width	H 80° V 60°
Ratio front/back	> 20dB
Bandwidth VSWR	< 1.5:1 = 810-2500 MHz
Impedance	50 ohms
Max Input Power	200 watts
Dimensions	13" l x 8.5" w x 2.5" h (330 x 215 x 65 mm)
Weight	1.1 lb (.5 kg)
RF Connector	Type N female
Wind Rating	110 mph
Installation	Included bracket to clamp on 1" -1 3/4" user supplied pole

Cable	P/N DA440 (100') and 240-30NN (30')
Impedance	50 Ohm
RF Connectors	DA440 = Type N male (qty 2 un-attached) 240-30NN = Type N male (qty 2 attached)
Attenuation at 800 MHz	DA440 3.7dB DA240 7.1dB per 100'
Attenuation at 1900 MHz	DA440 5.8dB DA240 11.2dB per 100'

Power Supply	P/N DP830
Input	100-240VAC 50/60 Hz
Output	8VDC 3A
Connector	Wall Type
Cord Length	10' (3 m)
Output Plug	5.5 x 2.5 x 11 mm

Required Installation Guideline:

60' minimum separation between outside and inside antennas including a complete structure (walls and roof).

Cannot be used in open air.

Outside signal strength of -70 to -90 dB.