

PowerMax™ SMALL BUILDING REPEATER



60 DB GAIN DUAL BAND CELLULAR REPEATER

LARGE YACHTS | RVs 40' LENGTH OR GREATER
HOMES | OFFICES



Complete System #4KSBR-50U

Boost your cell phone range 30+ miles and increase signal strength inside RVs, marine vessels, homes & offices with the PowerMax™ DA4000SBR Small Building Repeater. This 3 watt cellular repeater improves cellular communication without a physical connection to your cell phone.

The Latest Technology, First!

Digital Antenna's in-house laboratory, with over 80 years experience, brought you the first dual band repeater. Digital Antenna offers exclusive Dynamic Variable Gain Control, which regulates the amplifier's output to any cell carrier's tower, ensuring clean and clear wireless communication.

Benefits

- Increases cell phone range up to 30+ miles.*
- Wireless – no connection to cell phone.*
- Multiple cell phone users (up to 20) and carriers simultaneously.*
- Coverage area up to 5,000 SF.*

4KSBR-50U System Includes:

- 3 watt dual band 60dB gain cellular repeater unit (# DA4000SBR)
- 12 VDC power converter (# DP515)
- 110 VAC power supply (# DP255)
- Internal omni-directional antenna (# 135-RD)
- 18" external 9dB gain cellular antenna with mounting bracket (# 288-PW)
- 50' ULTRA low-loss DA340 coaxial cable & factory attached connectors (# 340-50NM)

Requires 40' separation and a wall/roof/bulkhead structure between inside and outside antennas.

To mount the 288-PW outside antenna on a standard 1"x14 marine mount, use model #F114 – 1"x14 double female ferrule.

See website for installation instructions www.digitalantenna.com



PRODUCT TECHNICAL SPECIFICATIONS



60 DB GAIN SMALL BUILDING REPEATER

MODEL NUMBER: 4KSBR-50U

Repeater Unit	P/N DA4000SBR
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	44 dBm
Dynamic Variable Gain	63 dB Max
Receive Sensitivity	-125 dBm
Impedance	50 ohms
Noise Figure	<3dB
Power Consumption	Standby 5 vdc/0.5A, Uplink 5 vdc/1.5A
Internal Fuse	5A
FCC Approved	FCC ID: PZOSDA4000SBR
Industry Canada Approved	IC ID: 4260A-DA4000SBR
Dimensions	4.5" l x 4" w x 1.25" h (114 mm x 102 mm x 32 mm)
Weight	11.5 oz (.345 kg)
RF Connections	Outside & Inside Antenna Port: mini-UHF female
DC Power Connector	Coaxial ID = 2.5 mm, OD = 5.5 mm
Indicator	Tri-color LED
Power Switch	Slide switch toward LED = ON

Outside Antenna	P/N 288-PW
Radiation Pattern	Omni-Directional
Gain	9 dBi
VSWT	< 1.5:1 @ 850 MHz; < 1.5:1 @ 1900 MHz
Bandwidth VSWR	< 1.5:1 = 810 - 950 and 1800 - 1980 MHz
Impedance	50 ohms
Max Input Power	200 watts
Dimensions	18" l x 1" OD (457 mm x 25.4 mm)
Weight	8 oz (.23 kg)
RF Connector	Type N female
Wind Rating	135 mph
Installation	Supplied L-bracket for pole/wall
Cable	340-50NM

Power Cable	P/N DP515
Input	9VDC - 24VDC
Output	5VDC 1.5A
Connector	Cigarette Lighter
Cord Length	72" (183 cm)
Output Plug	5.5 x 2.5 x 11 mm

Power Supply	P/N DP255
Input	100-240VAC 50/60 Hz
Output	5VDC 1.5A
Connector	Wall Type
Cord Length	72" (183 cm)
Output Plug	5.5 x 2.5 x 11 mm

Cable	P/N 340-50NM
Length	50'
Impedance	50 Ohm
RF Connectors	Type N male & mini-UHF male attached
Attenuation at 800 MHz	5.7 dB per 100'
Attenuation at 1900 MHz	8.5 dB per 100'

Inside Antenna	P/N 135-RD
Radiation Pattern	Omni-Directional
Gain	Unity
VSWT	< 1.5:1 @ 850 MHz; < 1.5:1 @ 1900 MHz
Bandwidth VSWR	< 1.5:1 = 810 - 950 and 1800 - 1980 MHz
Impedance	50 ohms
Max Input Power	100 watts
Dimensions	4" l x .25" OD (101.6 mm x 6.3 mm)
Weight	1.8 oz (.05 kg)
RF Connector	Mini-UHF male
Wind Rating	N/A
Installation	Attached base for flat surface or wall
Cable	10' RG-174 with attached mini-UHF male

Required Installation Guideline:

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

Cannot be used in open air such as open console boat.

Outside signal strength of -70 to -90 dB.