

# 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](http://www.digitalantenna.com)*



# PRODUCT TECHNICAL SPECIFICATIONS



## 60 DB GAIN SMALL BUILDING REPEATER

MODEL NUMBER: 4KSBR-50U

<b>Repeater Unit</b>	P/N DA4000SBR
<b>Frequency</b>	Uplink: 824-849 MHz and 1850-1910 MHz Downlink: 869-895 MHz and 1930-1990 MHz
<b>Modulations</b>	All
<b>Max Output Power</b>	3W (824-849 MHz), 2W (1850-1910 MHz)
<b>IP3</b>	44 dBm
<b>Dynamic Variable Gain</b>	63 dB Max
<b>Receive Sensitivity</b>	-125 dBm
<b>Impedance</b>	50 ohms
<b>Noise Figure</b>	<3dB
<b>Power Consumption</b>	Standby 5 vdc/0.5A, Uplink 5 vdc/1.5A
<b>Internal Fuse</b>	5A
<b>FCC Approved</b>	FCC ID: PZOSDA4000SBR
<b>Industry Canada Approved</b>	IC ID: 4260A-DA4000SBR
<b>Dimensions</b>	4.5" l x 4" w x 1.25" h (114 mm x 102 mm x 32 mm)
<b>Weight</b>	11.5 oz (.345 kg)
<b>RF Connections</b>	Outside & Inside Antenna Port: mini-UHF female
<b>DC Power Connector</b>	Coaxial ID = 2.5 mm, OD = 5.5 mm
<b>Indicator</b>	Tri-color LED
<b>Power Switch</b>	Slide switch toward LED = ON

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

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

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

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

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