

JD60-4-DB Dual Band Full Duplex Cellular Repeater



Overview & Applications

The JD60-4-DB Dual Band Full Duplex Indoor Cellular Repeater with Manual Gain Control is perfect for providing wireless coverage within an office building, warehouse or underground parking lot. Several models are available to support any frequency band or technology protocol around the world.

These units are fully customizable in deployment, making design, installation and integration of a DAS (Distributed Antenna System) and Link Budget calculations extremely easy. With the use of RF Signal splitters, Couplers and Indoor Antennas, JDTECK can design a solution that fits your specific needs.

Product Features

By making use of the latest Gain Adjustable Technology available today, this repeater allows the user to manually increase or decrease the Uplink & Downlink gain levels individually, by use of dipswitches to attenuate the gain.

The JD60-4-DB Indoor Repeater is designed to be transparent to the network and will therefore support the same number of calls the BTS in the area can support. This repeater is relatively lightweight and compact enough that it can be placed within an electrical closet where space is limited.

Although being a wide band repeater, SAW filters are used to ensure high quality, out of band rejection and high performance for any application.

Main Features

- » 18 Months Warranty
- » 30 Day Money Back Guarantee
- » FCC Type Accepted
- » MGC: Manual Gain Control (Uplink & Downlink)
- » Transparent to Transmitting Tower in Area
- » Automatic Output interception function (MUTE)
- » Coverage Area - (12,000 - 18,000 sq ft)
- » Automatic Gain Control Feature

Mechanical Specifications

I/O Port	N-Female
Impedance	50 Ω
Dimensions (W x H x D)	250 x 145 x 53mm
Weight	≤2Kg (4.4Lbs)
Operating Temperature	-10°C ~ 50°C
Environment Conditions	IP40
Switch Adapter	Input AC 90~265V, Output DC 12V / 3A

Model Specifications

Classification	Bandwidth Range (MHz)
A. Frequency Range CDMA / TDMA / AMPS / GSM 850 PCS / CDMA / GSM / GPRS Part # JD60-4-819	DL - 869-894 / 1930-1990 UL - 824-849 / 1850-1910
B. Frequency Range (GSM / DCS) Part # JD60-4-918	DL - 935-960 / 1805-1880 UL - 890-915 / 1710-1785
C. Frequency Range (GSM / WCDMA / UMTS) Part # JD60-4-921	DL - 935-960 / 2110-2170 UL - 890-915 / 1920-1980

Frequency Specifications

Filter Bandwidth	GSM & CDMA 25MHz PCS 60MHz DCS 75MHz WCDMA 60MHz
Max total output power	Downlink ≥20dBm Uplink ≥15dBm
Max. Gain	≥65dB
Gain Flatness	CDMA & GSM: ≤5dB, PCS & DCS: ≤8dB WCDMA ≤5dB
AGC Range	≥20dB
Maximum Input Power	0dBm
Gain Control Range(MGC)	≥31dB in 1 dB step
V.S.W.R	≤2
Output Power	≥15dBm
Inter-modulation Products	9KHz~1GHz≤-20dBm 1GHz~12.75GHz≤-30dBm
Spurious Emission	9KHz~1GHz≤-36dBm 1GHz~12.75GHz≤-30dBm
Spurious Emission Mask	Complies with 3GPP TS 25.106
Modulation Accuracy	Complies with 3GPP TS 25.106
Peak Code Domain Error	Complies with 3GPP TS 25.106
Frequency Stability	≤0.01ppm
ACPR	≥30dB @±5MHz & ±10MHz
Noise Figure (@ max gain)	≤5dB



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