

WCDMA(3G) Single Band Selective Repeater CSG RPTR 92100-70-21

CSG WCDMA(3G) Repeater solves the indoor signal coverage problems by boosting the signal strength. The repeater works as a relay between the BTS, Donor (Input) and mobile Radios. It receives the DOWNLINK signal from BTS via the Donor Antenna, linearly amplifies the signal and then retransmits it via the Indoor Signal Distribution System to the weak / blind coverage area. In the reverse path the signal from the mobile radio is also amplified and retransmitted to the BTS via the opposite direction (known as UPLINK). It's easy to install and maintain.

CSG BDAs / Repeaters are designed to operate within the customized band as Band selective or in Channel Selective configuration



Features

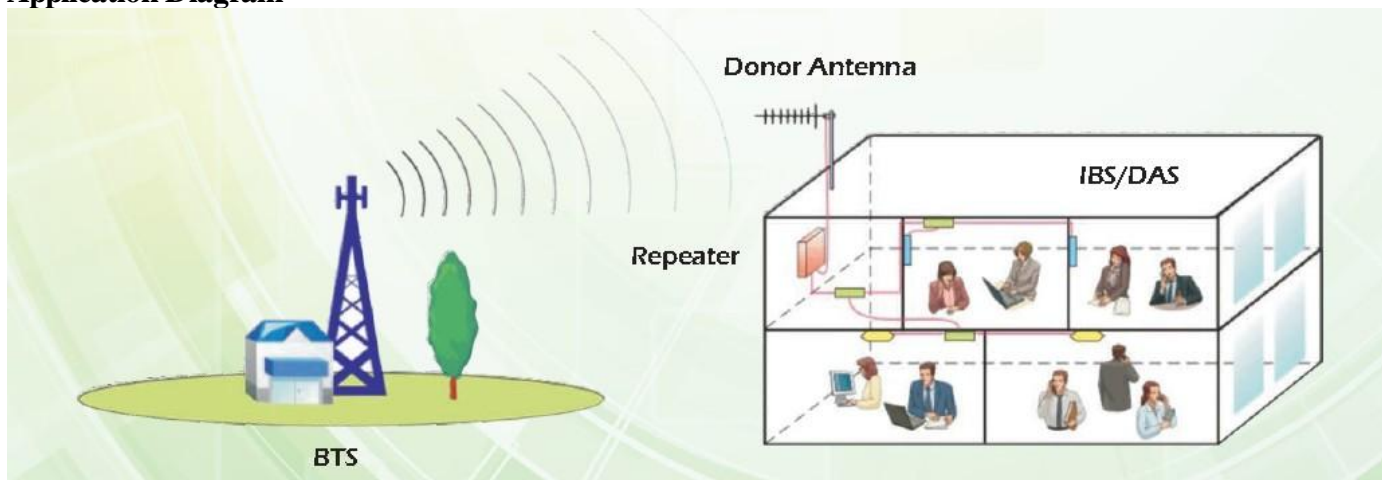
- Two signal ports with full duplex design
- High system gain
- Linear power amplification suppresses inter-modulation and spurious emission
- Automatic Level Control (ALC) ensures output level is stable and is continuously adjustable
- Unique color LEDs to indicate power supply and signal levels of UPLINK and DOWNLINK
- Simple Installation with external AC/DC Adaptor

Applications

To enhance and expand signal coverage where WCDMA (3G) signals are weak or unavailable.

- Hotels
- Exhibition Centers
- Basements
- Shopping Malls
- Offices
- Parking lots
- Fringe Areas

Application Diagram



Technical Specifications :

PARAMETERS		SPECIFICATIONS
Frequency range	Uplink	1920 – 1980 MHz
	Downlink	2110 – 2170 MHz
Maximum Gain		≥ 70 dB
Output Power		21 dBm
AGC control range		≥ 20 dB
Maximum Input Power(Non-destructive)		≤ 0 dBm
VSWR		$\leq 2.0 : 1$
System Delay		≤ 1.5 μ s
I/O Impedance		50 Ω
Noise Figure		≤ 6 dB
Spurious Emission		9KHz ~ 1GHz ≤ -36 dBm
		1GHz ~ 12.75 GHz ≤ -30 dBm
ACRR	P ≤ 31 dBm	Offset 5MHz ≥ 20 dB
	P ≤ 31 dBm	Offset 10MHz ≥ 20 dB
Peak Code Domain Error (PCDE)		≤ -35 dBm
Error Vector Magnitude (EVM)		$\leq 12.5\%$
RF Connectors		N - Female
Power Consumption		≤ 30 W
Power Supply		AC 100 ~ 240 V Output : 9V/5A
Dimensions (Approx.)		265 x 188 x 68 mm
Weight (Approx.)		5.0 Kg
Alarm monitoring system		Alarm for uplink self-oscillation
Indications		Power supply , Alarm, State
Operating temperature		-25 ⁰ C to +55 ⁰ C
Humidity		≤ 95 %