

# WCDMA Digital PICO Repeater

1920 - 1980 and 2110 - 2170 MHz



## PRODUCT FEATURES

- In-built Donor antenna and Service antenna
- Automatic Digital gain control and Antenna Feedback Cancellation (AFC) feature that can reduce the isolation requirement up to 30 dB
- Support up to 2 WCDMA channels in 30 MHz instantaneous bandwidth

TECHNICAL SPECIFICATIONS	RP21-0217-CA00
<b>ELECTRICAL</b>	
<b>FREQUENCY RANGE, UPLINK</b>	1920 – 1980 MHz
<b>FREQUENCY RANGE, DOWNLINK</b>	2110 – 2170 MHz
<b>NUMBER OF CHANNELS</b>	2
<b>INSTANTANEOUS BANDWIDTH</b>	30 MHz
<b>TOTAL OUTPUT POWER, UPLINK</b>	10±1 dBm
<b>TOTAL OUTPUT POWER, DOWNLINK</b>	17±1 dBm
<b>MAXIMUM SYSTEM GAIN</b>	70±2 dB
<b>GAIN ADJUSTMENT RANGE</b>	0 - 30 dB
<b>ANTENNA FEEDBACK CANCELLATION</b>	30 dB
<b>SPECTRUM EMISSION MASK</b>	
<b>ACRR</b>	Compliance with 3GPP TS 25.106
<b>EVM</b>	
<b>PCDE</b>	
<b>INTERMODULATION</b>	
<b>SYSTEM NOISE FIGURE AT MAXIMUM GAIN</b>	≤ 6 dB
<b>SYSTEM GROUP DELAY</b>	≤ 7 μsec
<b>INPUT VSWR</b>	≤ 1.5
<b>IMPEDANCE</b>	50 Ohm

POWER, MECHANICAL & ENVIRONMENTAL	
<b>DIMENSIONS, (H x W x D)</b>	239 x 155 x 67 mm
<b>WEIGHT</b>	1.5 kg
<b>POWER SUPPLY</b>	100 – 240 VAC / 50 – 60 Hz
<b>POWER CONSUMPTION</b>	20 W
<b>POWER UP WAITING TIME</b>	30 sec
<b>ENCLOSURE COOLING</b>	Convection
<b>OPERATING TEMPERATURE</b>	-10 to +45°C
<b>OPERATING HUMIDITY</b>	≤ 95%
<b>ENVIRONMENTAL CLASS</b>	IP30
<b>MTBF</b>	≥ 50,000 hr

## FUNCTIONAL BLOCK DIAGRAM

