

Product Specifications

Product Name: G-Boost Cellular Signal Booster

Product Model: 775169



Basic Information:

The G-Boost Cellular Signal Booster is a pico repeater product designed in accordance with CE standards for in-building wireless coverage.

1. Base Unit

Parameters	Uplink	Downlink
Frequency Range	1920~1980MHz	2110~2170MHz
Operating Bandwidth	20MHz	
Maximum Output Power	23dBm	23dBm
Maximum Gain	70 ± 3dB	

Out of Band Gain	$2.7 \text{ MHz} \leq f_{\text{offset_CW}} < 3.5 \text{ MHz}: \leq 60\text{dB}$
	$3.5 \text{ MHz} \leq f_{\text{offset_CW}} < 7.5 \text{ MHz}: \leq 45\text{dB}$
	$7.5 \text{ MHz} \leq f_{\text{offset_CW}} < 12.5 \text{ MHz}: \leq 45\text{dB}$
	$12.5 \text{ MHz} \leq f_{\text{offset_CW}}: \leq 35\text{dB}$
Out of Band Emission	$2,515\text{MHz} \leq f_{\text{offset}} < 2,715\text{MHz}: \leq -22\text{dBm}@RBW=30\text{kHz}$
	$2,715\text{MHz} \leq f_{\text{offset}} < 3,515\text{MHz}: \leq -22\text{dBm} - 15 \cdot \left(\frac{f_{\text{offset}}}{\text{MHz}} - 2.715 \right) \text{dB} @RBW=30\text{kHz}$
	$3,515\text{MHz} \leq f_{\text{offset}} < 4,0\text{MHz}: \leq -34\text{dBm}@RBW=30\text{kHz}$
	$4,0 \text{ MHz} \leq f_{\text{offset}} < 8,0\text{MHz}: \leq -21\text{dBm}@RBW=1\text{MHz}$
	$8,0\text{MHz} \leq f_{\text{offset}} < f_{\text{offset_max}}: \leq -25\text{dBm}@RBW=1\text{MHz}$
Spurious Emissions	$9\text{kHz} \sim 150\text{kHz}: \leq -36\text{dBm}@RBW=1\text{kHz}$
	$150\text{kHz} \sim 30\text{MHz}: \leq -36\text{dBm}@RBW=10\text{kHz}$
	$30\text{MHz} \sim 1\text{GHz}: \leq -36\text{dBm}@RBW=100\text{kHz}$
	$1\text{GHz} \sim 12.75\text{GHz}: \leq -30\text{dBm}@RBW=1\text{MHz}$
EVM	$\leq 12.5\%$
PCDE	$\leq -35\text{dB}$
Frequency Stability	$\leq 0.01\text{ppm}$
Input Intermodulation	The power in the pass band will not increase with more than 10dB
Output Intermodulation	The output intermodulation level will not exceed the out of band emission nor the downlink spurious emission
ACRR	$\geq 20\text{dB}$
Noise Figure	$\leq 6\text{dB}$
VSWR	≤ 2.0
Transmission Delay	$\leq 5.0\mu\text{s}$
AGC Range	$\geq 20\text{dB}$
MGC Range	$\geq 15\text{dB}$
General Power Consumption	$< 18\text{W}$
Operating Voltage	AC 90 ~ 240V, 50/60Hz
Connector	SMA-K
Resistance	50Ω
Environment Temperature	-10 ~ +45 Degree Centigrade
Protection	IP30



Size	170 mm × 120 mm × 35mm
Weight	1Kg
*: $f_{\text{offset_CW}}$ is the distance from the centre frequency of the first or last 5 MHz channel within the pass band. **: f_{offset} is the separation between the centre frequency of first or last 5 MHz channel in the pass band and the centre of the measuring filter;	

2. Outside Antenna

Frequency Range	800-2700MHz
Polarization	Vertical or horizontal
Input Resistance	50Ω
VSWR	≤ 2
Gain	10dBi
Front-to-Rear Ratio	14dB
Maximum Power	50W
Lightening Protection	DC ground
Connector	SMA-J
Weight	1 Kg
Cable Type	RG58
Size	330 mm × 215mm × 65mm
Radiation Element Material	Copper and Aluminum
Color	Grey
Working Temperature	-40 ~ +70 Degree Centigrade
Supporting Pole Size	Φ30-Φ50mm

3. Inside Antenna

Frequency Range	698-2200MHz
Polarization	Vertical
Input Resistance	50Ω
VSWR	≤2.0
Gain	1dBi
Horizontal 3dB beam width	360°
Maximum Power	10W
Lightening Protection	DC ground
Connector	SMA-J
Cable Type	RG174
Cable Length	about 1.5m (including base)
Weight	65g
Size	Φ×L 30mm×91mm
Radiation Element Material	Copper



Color	White / Black
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4. Power Adaptor

Input Voltage	AC 90~264V, 50/60Hz
Max. Input Current	0.6A
Output Voltage	DC 12V
Output Current	2A
Protection	Protection against overload / over voltage / short circuit