

Laguna 5G Base Station

NEXT GENERATION PERFORMANCE, UNPARALLELED VALUE

Benefits:

- 4T4R Digital Radios
- 5W (37dBm) Output Power
- 5G NR Complaint
- IP67 Outdoor Rated

Laguna-BBU5G1

Overview:

The Laguna-BBU5G1 is a state-of-the-art digital transport platform designed to support cellular technologies over fiber optic cables utilizing the CPRI protocol. It incorporates advanced power amplifier technology with Digital Pre-Distortion (DPD), significantly enhancing power efficiency compared to traditional analog solutions. This platform is ideally suited for the deployment of cellular services in underground tunnels and outdoor coverage areas, ensuring robust and reliable connectivity.

Key Futures:

- Supports 4T4R, 5G NR Compliant
- Up to 5W (37dBm) Output Power and up to 100MHz IBW
- Supports Cascading
- Supports Sub-6GHz TDD/FDD
- Supports External Alarm



Supported Bands:

Band Frequency	3GPP Band	Downlink Frequency	Uplink Frequency	Max Bandwidth
3600 MHz TDD	48	3550-3700	3550-3700	100
3700 MHz TDD	43	3600-3800	3600-3800	100
3500 MHz	B43/N77/N78	3500-3800	3500-3800	100
3500 MHz	N77	3800-4100	3800-4100	100
3500 MHz	B42/N77/N7	3400-3600	3400-3600	100
2600 MHz TDD	41	2496-2690	2496-2690	100
2300 MHz TDD	40	2300-2400	2300-2400	100
2600 MHz TDD	38	2570-2620	2570-2620	50
2100 MHz FDD	1	2110-2170	1920-1980	70
1800 MHz FDD	3	1805-1880	1710-1785	75
2600 MHz FDD	7	2620-2690	2500-2570	70

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Specifications:

System:

Bandwidth per Channel.....	≤ 100 MHz (Contiguous)
(Downlink & Uplink)	
Digital Bandwidth per Channel.....	3/5/10/20MHz for LTE
(Downlink & Uplink)	20/40/50/60/80/100 MHz for 5G
Redundancy.....	Cascading

Electrical:

Complies with.....	3GPP TS36.106 3GPP TS25.106
EMC.....	EN 301489-1 / -50, EN 50121-4, EN 55032, EN 61000-4 series
Safety.....	EN 60950-1, EN 60950-22, EN 62368-1, EN 50385
Maximum Power Consumption.....	140W
Power Supply.....	100-240V AC, 50/60 Hz 48VDC ± 20%

Environmental:

Mean Time Between Failure (MTBF).....	> 100,000 hours
Operating Temperature.....	-40 °C ~ +55 °C -40 °F ~ +131 °F
Humidity.....	5% ~ 100% (Non-Condensing)
Cooling.....	Passive
Installation.....	Wall or Pole
Ingress Protection Rating.....	IP67 (Outdoor)
Complies with.....	EN 300019-1-1, EN 300019-1-2, EN 300019-1-4

Mechanical:

Size (Width x Height x Depth).....	360 x 115 x 260 mm 14.17 x 4.53 x 10.24 in
Weight.....	12.0 kg 26.46 lbs