

Benefits:

- 2T2R Digital Radios
- 20W (43dBm) Output Power
- 5G NR Complaint
- IP65 Outdoor Rated

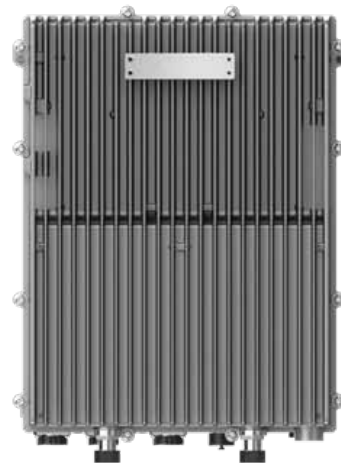
Laguna-R2430

Overview:

The Laguna-R2430 is a digital transport platform supporting cellular technologies on fiber optic cable using the CPRI protocol. The power amplifier technology adopts DPD (Digital Pre-Distortion), allowing for a significant improvement in power consumption compared with analogue technology. This platform is ideal for underground tunnels & outdoor coverage deployments of cellular services.

Key Futures:

- Supports Band 2T2R
- Up to 20W (43dBm) Output Power
- Supports Cascading
- Supports TDD/FDD
- Supports External Alarm



Supported Bands:

Band Frequency	3GPP Band	Downlink Frequency	Uplink Frequency	Max Bandwidth
2500 MHz TDD	41 (LOWER/UPPER)	2496-2576/2610-2690	2496-2576/2610-2690	80
2300 MHz TDD	40	2300-2400	2300-2400	80
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
900 MHz FDD	8	925-960	880-915	35
2600 MHz FDD	7	2620-2690	2500-2570	70

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Specifications:

System:

Bandwidth per Channel.....	≤ 80 MHz (Contiguous)
(Downlink & Uplink)	
Digital Bandwidth per Channel.....	TDD/FDD
(Downlink & Uplink)	
Redundancy.....	Cascading

Interfaces:

Antenna Interface (All bands).....	4.3-10 Female
Optical Connector Type.....	SFP+, Standard LC
Optical Transmission Rate.....	9.8304GB/s
Optical Fiber Length.....	1.4 km/ 10 km/ 30 km
	0.87mi / 6.21mi / 18.64mi
Physical Alarms.....	DB9, Female (4x in, 4x out)
Maintenance Interface.....	Ethernet RJ45

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.....	250W

Environmental:

Mean Time Between Failure (MTBF).....	> 100,000 hours
Operating Temperature.....	-40 °C ~ +55 °C -40 °F ~ +131 °F
Storage Temperature.....	-40 °C ~ +70 °C -40 °F ~ +158 °F
Humidity.....	5% ~ 100% (Non-Condensing)
Cooling.....	Passive
Installation.....	Wall or Pole
Ingress Protection Rating.....	IP65 (Outdoor)
Complies with.....	EN 300019-1-1, EN 300019-1-2, EN 300019-1-4
Power Supply.....	100-240V AC, 50/60 Hz 48VDC ± 20%

Mechanical:

Size (Width x Height x Depth).....	400 x 135 x 300 mm 15.75 x 5.31 x 11.81 in
Weight.....	18.0 kg 39.68 lbs