

## Extra Power RRU

### Benefits:

- 4T4R Digital Radios
- 40W (46dBm) Output Power
- Passive Cooling
- IP67 Outdoor Rated

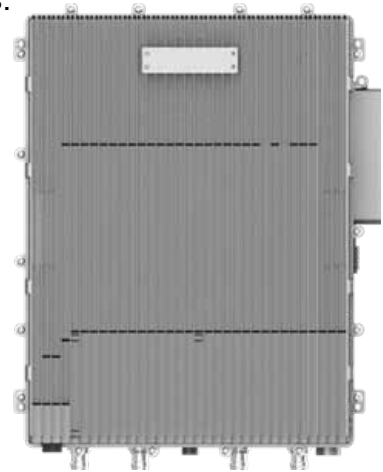
# Laguna-R4460

### Overview:

The Laguna-R4460 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 2T2R & 4T4R
- Up to 40W (46dBm) Output Power
- Supports Cascading
- Supports Sub-6GHz TDD/FDD
- Supports External Alarm



### Supported Bands:

Band Frequency	3GPP Band	Downlink Frequency	Uplink Frequency	Max Bandwidth
2300MHz TDD	40	2300-2400	2300-2400	100
2500MHz TDD	41	2496-2690	2496-2690	100
2600MHz TDD	38	2570-2620	2570-2620	50
3500MHz TDD	42	3400-3600	3400-3600	100
3600MHz TDD	43	3600-3800	3600-3800	100
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.....	3/5/10/20 MHz
(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
Dry Contact.....	2 Inputs & 2 Outputs, NO and NC Mode
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.....	700W
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).....	445 x 135 x 415 mm   17.52 x 5.31 x 16.34 in
Weight.....	23.0 kg   50.71 lbs