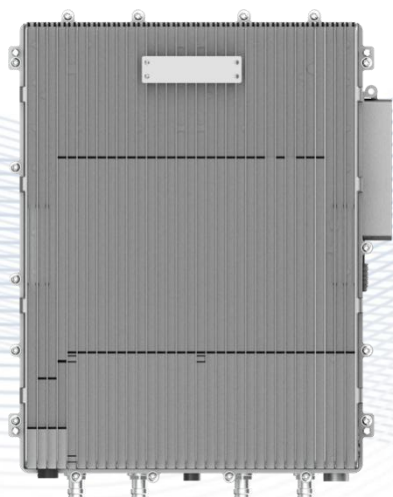


sCELL-RU4460 DATASHEET



sCELL-RU4460

EXTRA POWER RRU

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

The RU4460 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.

sCELL-RU4460 DATASHEET

KEY FEATURES

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

TECHNICAL SPECIFICATIONS

SYSTEM

Bandwidth per Channel (Downlink & Uplink)	≤ 100 MHz (Contiguous)
Digital Bandwidth per Channel (Downlink & Uplink)	3/5/10/20 MHz
Redundancy	Cascading

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

* More bands will be supported in the roadmap

INTERFACES

Antenna Interface (All bands)	4.3-10 Female
Optical Connector Type	SFP+, Standard LC
Optical Transmission Rate	9.8304GB/s
Optical Fiber Length	1.4km / 10km / 30km 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 55032
Safety	EN 60950-1, EN 60950-22, EN 62368-1, EN 50385
Maximum Power Consumption	700W
Power Supply	48VDC ± 20%

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ENVIRONMENTAL

Mean Time Between Failure (MTBF)	> 100,000 hours
Operating Temperature	-40 °C ~ +55 °C -40 °F ~ +131 °F
Humidity	5% to 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)	500 x 380 x 142 mm 19.7 x 14.96 x 5.59 in
Weight	27.9 kg 61.5 lbs

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