



nCELL-RU4370

5G Remote Radio Unit

4T4R

5W (37±2dBm)

5GNR

IBW 100MHz

The nCELL-RU4370 from SUNWAVE is a radio frequency unit (RRU) for 5G NR outdoor base stations. It forms a complete 5G base station together with the baseband unit (BBU), which is used in mobile communication cell cellular networking scenarios.

The platform supports fiber optic cable cellular technology with eCPRI protocol. The Power amplifier technology uses DPD (digital pre-distortion) technology, compared with analog technology, power consumption has been significantly improved. The platform is ideal for underground tunnel and outdoor overlay deployments for cellular services.

nCELL-RU4370 DATASHEET

APPEARANCE



TECHNICAL SPECIFICATIONS

Technology	5G NR
Standard	3GPP R16
Size	360 x 115 x 260 mm 14.17 x 4.53 x 10.24 in
Weight	< 12.0 kg 26.46 lbs
MIMO	4 x 4 MIMO
Number of Transmit and Receive Channels	4T4R/2T2R
Output Power	4 x 5W (37±2dBm)
Working Bandwidth	N38:2570MHz-2620 MHz N40:2300MHz-2400MHz N41:2496MHz-2690MHz N77/N78:3400MHz-3600MHz N48:3550MHz-3700MHz N77/N78: 3500MHz-3800MHz N77:3800MHz-4100MHz N77:4000MHz-4200MHz Band Customization
Channel Bandwidth	10MHz/20MHz/40MHz/50MHz/60MHz/80MHz/100MHz
Sensitivity	-98dBm/channel
Power Supply	48V DC, ±20%
Power Consumption	< 150W
MTBF	> 100,000 hours

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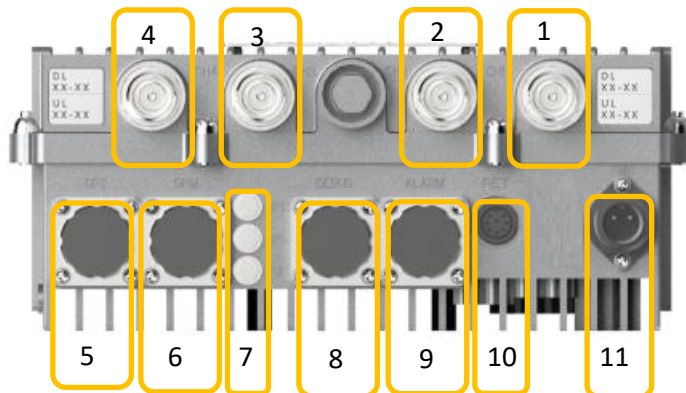
IR INTERFACE INDEX

Interface	Supports eCPRI interface (option 7-2)
Interfaces to Antenna	4.3-10 Female
IR Interface Rate	13.125 Gbit/s
VSWR	1.5
AISG	AISG 2.0
ACLR	ETSI TS 136.104
Operating Band Unwanted Emissions	ETSI TS 136.104
TX Spurious Emissions	ETSI TS 136.104
External Alarm	2 x Inputs & 2 x Output
Maintenance Interface	Ethernet RJ45

ENVIRONMENTAL SPECIFICATIONS

Working Temperature	-40 °C ~ +55 °C -40 °F ~ +131 °F
Cooling Method	Natural
Humidity	5%~100%
Installation	Wall-mounted or Pole-mounted
Protect Level	IP67
Environmental	IEC60529 IP67
Safety	EN 62368-1
Electromagnetic Compliance	EN 301 908-1, EN 301 908-24, ETSI EN 301489-1, EN 301 489-50, EN 55032, EN 61000-3-3, EN 61000-3-2, EN 55035

INTERFACE



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INTERFACE SPECIFICATIONS			
1	Duplex DL/UL RF Port 1	2	Duplex DL/UL RF Port 2
3	Duplex DL/UL RF Port 3	4	Duplex DL/UL RF Port 4
5	OP Port for DU Connection	6	OP Port for Cascade
7	LED Indicator of OP & System	8	Maintenance Interface
9	External Alarm Port	10	AISG Port
11	Power Socket Interface		

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