



nCELL-M4460

5G Integrated Base Station

40W

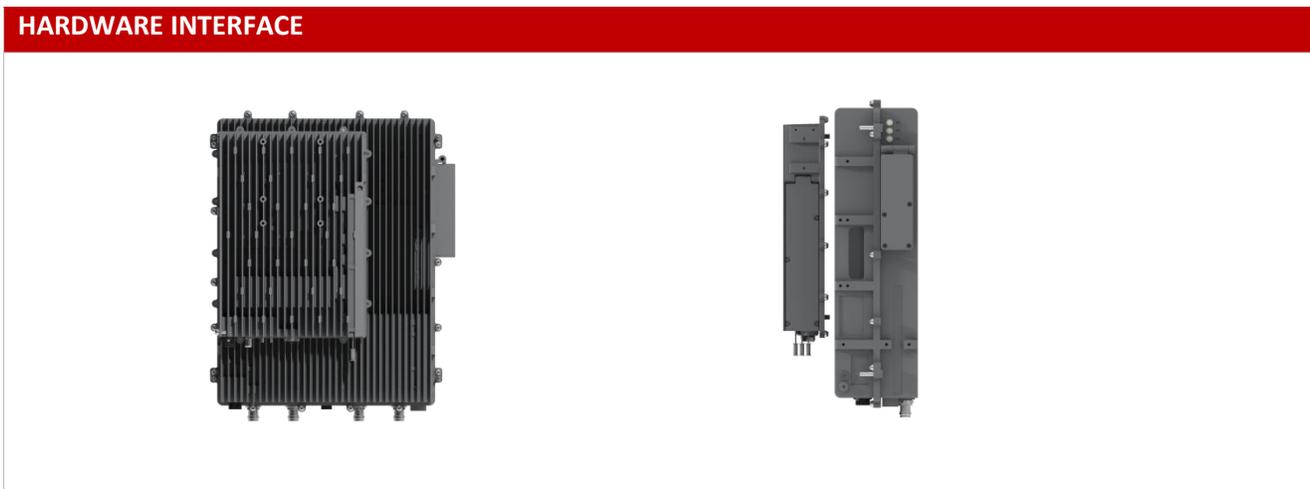
4T4R

All-in-one Design
Clock Synchronization

The nCELL-M4460 from BTI WIRELESS is based on advanced multi-core ARM and FPGA solutions and adopts an integrated design method of 5G BBU and RRU. Based on a completely independent research and development protocol stack and system software, it realizes a complete 5G NR wireless access, which can quickly provide users with a reliable 5G wireless coverage network.

The nCELL-M4460 has the advantages of low power consumption, small size, convenient construction, etc., and is suitable for applications in many 5G vertical industries.

SYSTEM FUNCTIONS	
Standard	3GPP R16
Number of Cells	1 x 4T4R or 2 x 2T2R
Cell Capacity	400 RRC users per cell
Cell Throughput	DL 1.5 Gbps, UL 260 Mbps (DDDSU) DL 658 Mbps, UL 669 Mbps (DSUUU)
Operating Frequency Band	N38: 2570-2620 MHz N40: 2300-2400 MHz N41: 2496-2690 MHz N78: 3300-3600 MHz N77/N78: 3600-3800MHz Band Customization
Channel Bandwidth	20MHz/40MHz/50MHz/60MHz/80MHz/100MHz
RF Power	4*40W
Duplex Mode	TDD
Subcarrier	30 kHz
Clock Synchronization Method	GPS, 1588V2 clock synchronization
Power Supply	DC -48V
Power Consumption	< 700W



HARDWARE INTERFACE	
Fronthaul (Connect To Remote RRU)/Backhaul/ Cascade Interface	10G SFP+ optical port
DEBUG/RGPS Interface	Cable port
Power Input	Waterproof aviation plug
Radio Frequency Interface ANT1	4.3-10

-ANT4	
GPS Antenna Connector	GPSN

STRUCTURE PARAMETERS

Total Weight	BBU: 6.3 kg 13.89 lbs RRU: 27.9 kg 61.5 lbs
Dimension	BBU: 378.5 x 278.5 x 80 mm 14.9 x 10.96 x 3.15 in RRU: 500 x 380 x 142 mm 19.7 x 14.96 x 5.59 in
Installation Method	Supports pole installation, hanging installation, wall installation

ENVIRONMENTAL SPECIFICATIONS

Protection Level	IP65
Operating Temperature	-40 °C ~ +55 °C -40 °F ~ +131 °F
Working Humidity	5% ~ 95%
Working Pressure	70kPa ~ 106kPa

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