nCELL-M4370

5G Integrated Base Station

5W

4T4R

All-in-one Design

Clock Synchronization

The nCELL-M4370 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-M4370 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 R15/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	N40:2300-2400MHz； N41:2496-2690MHz； N48(CBRS): 3550-3700MHz; N77/N78: 3500-3800MHz; N77: 3800-4100MHz; Band Customization
Channel Bandwidth	20MHz/40MHz/50MHz/60MHz/80MHz/100MHz
RF Power	4*5W
Duplex Mode	TDD
Subcarrier	30 kHz
Clock Synchronization Method	GPS, 1588V2 clock synchronization
Power Supply	DC -48V or AC 220V (100V ~ 240V) (need extra power)
Power Consumption	< 200W

Note: *means the function is on roadmap

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 -ANT4	4.3-10
GPS Antenna Connector	GPSN

STRUCTURE PARAMETERS	
Total Weight	< 17 kg | 37.48 lbs
Dimension	378.5 x 278.5 x 195 mm | 14.90 x 10.96 x 7.68 in
Installation Method	Supports pole installation, hanging installation, wall installation

ENVIRONMENTAL SPECIFICATIONS	
Protection Level	IP65
Operating Temperature	-40 ℃ ~ +55 ℃ | -40 ℉ ~ +131 ℉
Working Humidity	5% ~ 95%
Working Pressure	70kPa ~ 106kPa

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