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 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； N40:2300-2400MHz； N41:2496-2690MHz； N48(CBRS): 3550-3700MHz; N77/N78: 3500-3800MHz; N77: 3800-4100MHz; N77: 4000-4200MHz; Band Customization
Channel Bandwidth	10MHz/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	< 230W

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	360 x 260 x 195 mm | 14.17 x10.24 x 7.68 in
Installation Method	Supports pole installation, hanging installation, wall installation

ENVIRONMENTAL SPECIFICATIONS	
Protection Level	IP67
Operating Temperature	-40 ℃ ~ +55 ℃ | -40 ℉ ~ +131 ℉
Working Humidity	5% ~ 95%
Working Pressure	70kPa ~ 106kPa

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