

TECHNICAL SPECIFICATION

1. GENERAL

1.1 Scope

Product Name	Part Number
MU & RU system	103000048

2. CONSTRUCTION and PARAMETERS

2.1 Product Appearances and Features



MU system



RU system

- Supports FDD-LTE, 5G NR TDD, and mixed-mode signals
- Supports automatic gain adjustment to ensure coverage stability
- Advanced power amplifier linearization technology for high efficiency and low power consumption
- Natural cooling with high reliability
- Supports 4 channels (4T4R)
- High-quality industrial design
- Supports intelligent terminal testing
- Lightweight, supports wall-mounting/pole-mount installation

2.2 RF Performance

System	MU	RU
Frequency Range	1805MHz-1880 MHz/1710MHz-1785MHz + 2496MHz-2690MHz OR 2110MHz-2170MHz/1920MHz-1980MHz + 2300MHz-2400MHz	
Duplex Mode	LTE: FDD + NR: TDD	
Maximum Output Power	-5±2dBm	-43±2dBm
Gain Control	≥30dB@ 1dB step	

VSWR	≤ 2	
Noise Figure (@Max. Gain)	$\leq 5\text{dB}$	
Out of Band Gain (DL/UL)	N/A	$\pm 400\text{KHz}$ offset and greater: $\leq 50\text{dB}$
		$\pm 600\text{KHz}$ offset and greater: $\leq 40\text{dB}$
		$\pm 1\text{MHz}$ offset and greater: $\leq 35\text{dB}$
		$\pm 5\text{MHz}$ offset and greater: $\leq 25\text{dB}$
Spurious Emissions	$\leq -36\text{ dBm}$ 9 kHz to 1 GHz	
	$\leq -30\text{ dBm}$ 1 GHz to 12.75 GHz	
Frequency Error	$\leq 0.01\text{ppm}$	
EVM (Error vector margin)	$\leq 3.5\%(\text{RMS})$ 256QAM, $\leq 5\%(\text{RMS})$ 64QAM	
Group Delay	$\leq 8\mu\text{s}$	
Passband Ripple (in Band)	$\leq 4\text{dB}$	
MTBF (Mean time between failures)	$\geq 50000\text{h}$	
Input & Output Impedence	50ohm	
Power Supply	220V AC or -48V DC	220V AC
Power Consumption	$\leq 70\text{W}$	$\leq 350\text{W}$

2.3 Monitoring and Control

System	MU	RU
GUI Base	RJ45, RS232	
Parameter Setting	Supports Gain UL& DL	
Status Monitoring (Alarm & signal level)	Power supply, input/output power (UL/DL), temperature, VSWR alarm	
Firmware Download	YES	YES
MU Restart Function	YES	-
Repeater Restart Function	-	YES
Battery	YES	-
SMS and Data 4G/5G	YES	-

2.4 Physical Specifications

System	MU	RU
RF In Connector	N -Type Female 1/2", SMA Female	N -Type Female 1/2"
Weight	≤7kg	≤16kg
Operating Temperature	-5°C ~ +50°C	
Storage Temperature	-5°C ~ +75°C	
Humidity	≤95%	
Degree of Protection	IP30	IP65
Installation	19" Rack 1U or wall mounted	Wall mounted or pole-mount installation
Dimension	482.6mm x 43.6mm x 300mm	295 mm ×355 mm ×151mm
Grounding Kit	YES	YES
Power LED	YES	YES
Alarm LED	YES	YES