

Main Features

- Support LTE/UMTS technologies
- Modular design, hot swappable, easy installation
- Independent gain control and filtering for each channel
- Low-noise and high reliability
- Broad frequency range
- Natural heat dissipation
- 2 channels individual to support MIMO for same band



Electrical Specifications

		Uplink	Downlink
Frequency	Band 1	1920 - 1980 MHz	2110 - 2170 MHz
RF Output Power		-5 ± 1 dBm	43 ± 1 dBm
Gain		55 ± 2 dB	55 ± 2 dB
Gain Control Range		25 dB/1 dB step	25 dB/1 dB step
ALC control		When in max output power, if increased 20dB input Level, the variation of the output power can be controlled within 2dB	When in max output power, if increased 10dB input Level, the variation of the output power can be controlled within 2dB
Ripple in Band		≤ 3.5 dB (Single LPA)	≤ 3.5 dB (Single LPA)
		≤ ±3 dB (System of 1x PBMU: HPRU via 1m optical fiber)	≤ ±3 dB (System of 1x PBMU: HPRU via 1m optical fiber)
Intermodulation & Spurious Emissions		Meets 3GPP TS 36.106 for LTE	
Noise figure		≤ 3.5 dB (Single LPA)	---
		≤ 5 dB (System of 1x PBMU: HPRU via 1m optical fiber)	---
EVM (256QAM)		≤ 3%	≤ 3%
Group Delay		≤ 1 μS	≤ 1 μS
VSWR		≤ 1.5:1	≤ 1.5:1
Impedance		50 Ω	50 Ω
Max. non-destructive input power		≤ -10 dBm	≤ 10 dBm
Power Supply		DC +27.5 V ~ +28.5 V	
Power Consumption		< 270 W	

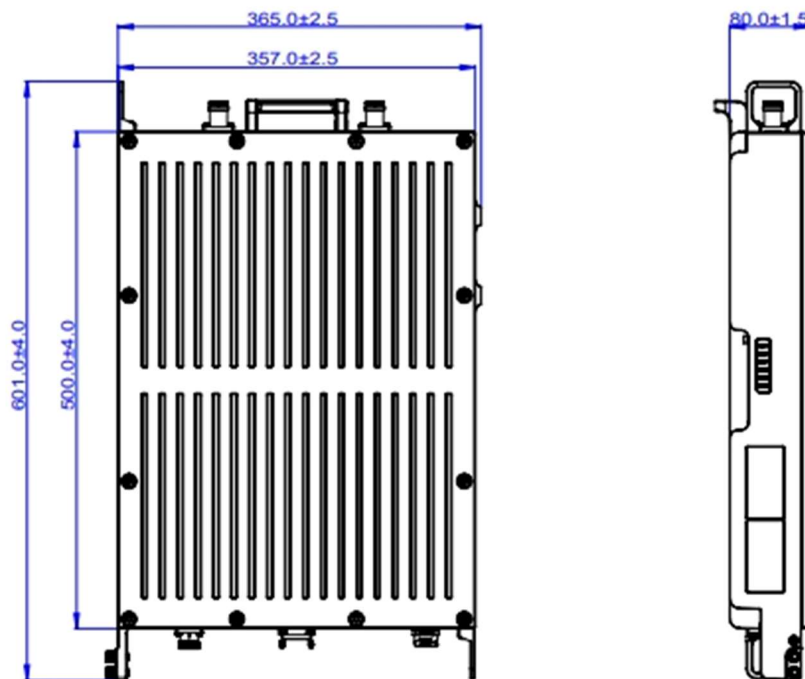
Environmental Specifications

Operating temperature range	-40°C to +55°C
Storage temperature range	-40°C to +85°C
Relative humidity	5% - 98%
Applications	IP67
Local Control	Type C

Mechanical Specifications

Dimensions	357 x 500 x 80 mm (Without handles, connectors, and brackets)
Weight	≤ 15 kg
RF Connectors	2 x 4.3-10 female (Output to antenna) 1 x L32 (Input from MCU4)
Power Connector	1 x integrated socket with power supply and communication pins
Debug Connectors	2 x USB Type C
Installation	Wall/Pole

Outline Drawing



While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.