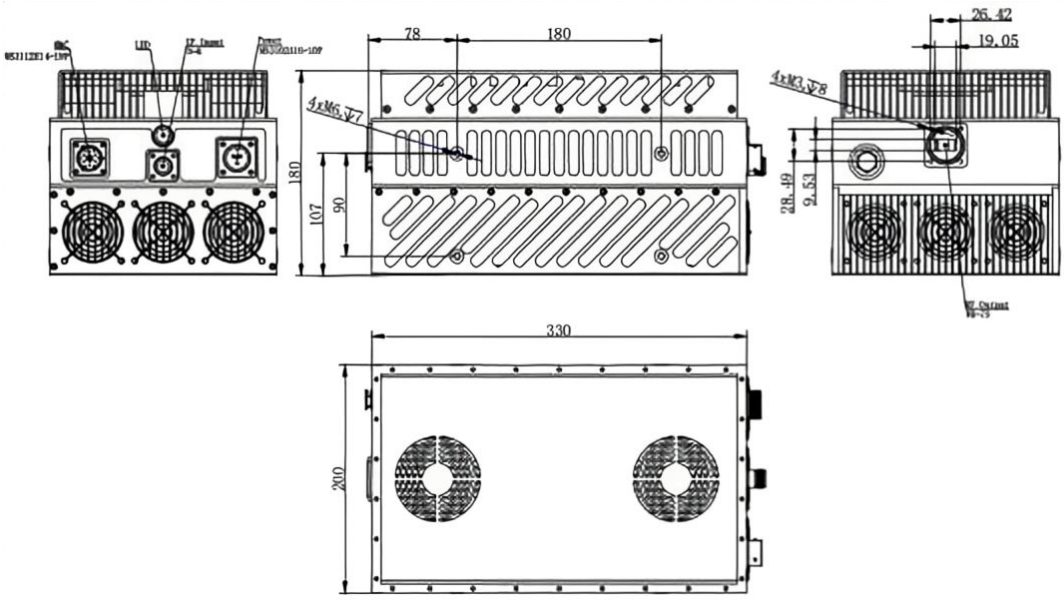
300W GaN Ku-Band BUC



key Features & Benefits

- Integrated BUC for Better Performance&Reliability
- High Frequency Stability
- Monitoring&Controllingthrough RS485, TCP/IP
- Weather-Proof, IP66 Standard
- LED Status Indicatorto Identify BUC Status Instantly
- BasedonGaNTechnology

optional Features &Accessories

- Built-In10 MHz Reference
- Built-In Up Converters
- 1:1 Redundancy Kit
- Customization Service



300W GaN

Ku-Band BUC

Technical Details

As per the frequency table on front page			
RF Specification		Monitor &Control	
Input / Output Frequency	13.75GHz-14.5GHz	Monitor	Lock / Unlock status Temperature reading RF output power reading
Output Power Psat	54.8 dBm (300W)		
Plinear	51.8 dBm (150W)		
Gain	≥73 dB nominal	Control	SSPA On/Off Gain adjustment
Gain Flatness	±2dB typical	Interface	Via PC : TCP-IP (RS232/485 option available)
Gain Stability over Temperature	±1dB	Redundancy	External Redundancy Controller require
Gain Control Range	20dB in 0.5dB step nominal	input Reference	
Intermodulation Product	-25dBc max(2 carriers, 5MHz apart at Plinear)	Internal Reference	± 0.1 ppm (10 MHz)
Spurious	-55 dBc max	External Reference	10 MHz to be supplied external via L-band cable
Frequency Stability over Temperature		Level	≤ -10 dBm
Internal Reference	±0.02 ppm	Environmental conditions	
External Reference	As per external 10MHz ref	Operating Temperature	-40°C to +60°C
Phase Noise:		Relative Humidity	0 to 100%
100 Hz	-63 dBc/Hz max	Waterproofing	IP-66
1 KHz	-73 dBc/Hz max		
10 KHz	-83 dBc/Hz max	Mechanical	
100 KHz	-93 dBc/Hz max	Dimensions	330L x 200W x 180H mm / 12.99L x 7.87W x 7.09H inches
I/P VSWR	2 : 1 max (300W)	Weight	15.5 kg / 34.1 lb
O/P VSWR	1.3 : 1 max	*Applicable to internal reference mod-el only	
Noise Power Density (NPD)	-70 dBm/Hz max in Tx Band -150 dBm/Hz max in Rx Band		
operating power Requirement			
Operating Voltage Power Consumption (Watts)	220 VAC (175 to 264 VAC) 1500 (300W)		
Interfaces			
IF input Interface	N type		
Output Interface	WR75 SQ Cover-Grooved		
Power Interface	3-Pin Ac		
M&C	19-Pin MIL Circular Connector(Ethernet & RS 485)		
LED status			
Green	Normal()		
Red	Fault		

*All specifications & designs are subject to changes without notice version2026