

RAT-603 Specifications

ELECTRICAL SPECIFICATIONS		
ANTENNA		
1	Patch architecture	Four-point-fed, single-layer patch
2	Supported GNSS signal bands	GPS: L1/L2/L5 BDS: B1/B2/B3 GLONASS: G1/G2/G3 Galileo: E1/E5a/E5b/E6 L-band
3	Peak gain	≥ 5.5 dBi at Fc
4	Polarization	RHCP
5	Axial ratio at zenith	≤ 3.0 dB
6	Azimuth coverage	360°
7	Impedance	50 Ω
8	Phase center accuracy	≤ 2.0 mm
9	Phase center repeatability	≤ 1.0 mm
LNA		
10	Frequency range	1164 MHz to 1300 MHz 1525 MHz to 1621 MHz
11	LNA gain	40 $\pm$ 2.0 dB (typ. at 25 °C)
12	Group delay variation	≤ 5 ns
13	Noise figure	≤ 2.0 dB at 25 °C, typ. (pre-filtered)
14	Output VSWR	$\leq 1.8:1$ typ.; 2.0:1 max.
15	Operating voltage	3.0 to 16 V DC
16	Operating current	≈ 45 mA
MECHANICAL & ENVIRONMENTAL		
17	Dimensions	$\varnothing 152$ mm $\times$ 67.9 mm
18	Connector	TNC (female)
19	Radome material	PC + PBT
20	Weight	≈ 290 g
21	Mounting thread	5/8"-11
22	Operating temperature	-40 °C to +85 °C
23	Storage temperature	-45 °C to +85 °C
24	Humidity	95% RH, non-condensing
25	IP rating	IP67

DIMENSIONS

