

■ ELECTRICAL SPECIFICATION



ANTENNA

PARAMETERS	VALUE	UNIT
Frequency Range	GPS: L1/L2/L5/L-Band	-
	GLONASS: G1/G2/G3	-
	COMPASS: B1/B2/B3	-
	Galileo: E1/L1/E2/E5a/E5b/E6	-
Polarization	RHCP	-
Axial Ratio, max	3	dB
Peak Axial Ratio, max	2	dB
VSWR, max	1.5	-
Peak Gain, min	5.5	dBi
Impedance	50	Ω
EMI Immunity out of Band, min	30	V/m
Phase Center Error	± 2	mm
Horizontal Coverage Angle	360	$^{\circ}$

PARAMETERS	VALUE	UNIT
Group Delay Variation in Band, max @ Each GNSS Bandwidth	10	ns

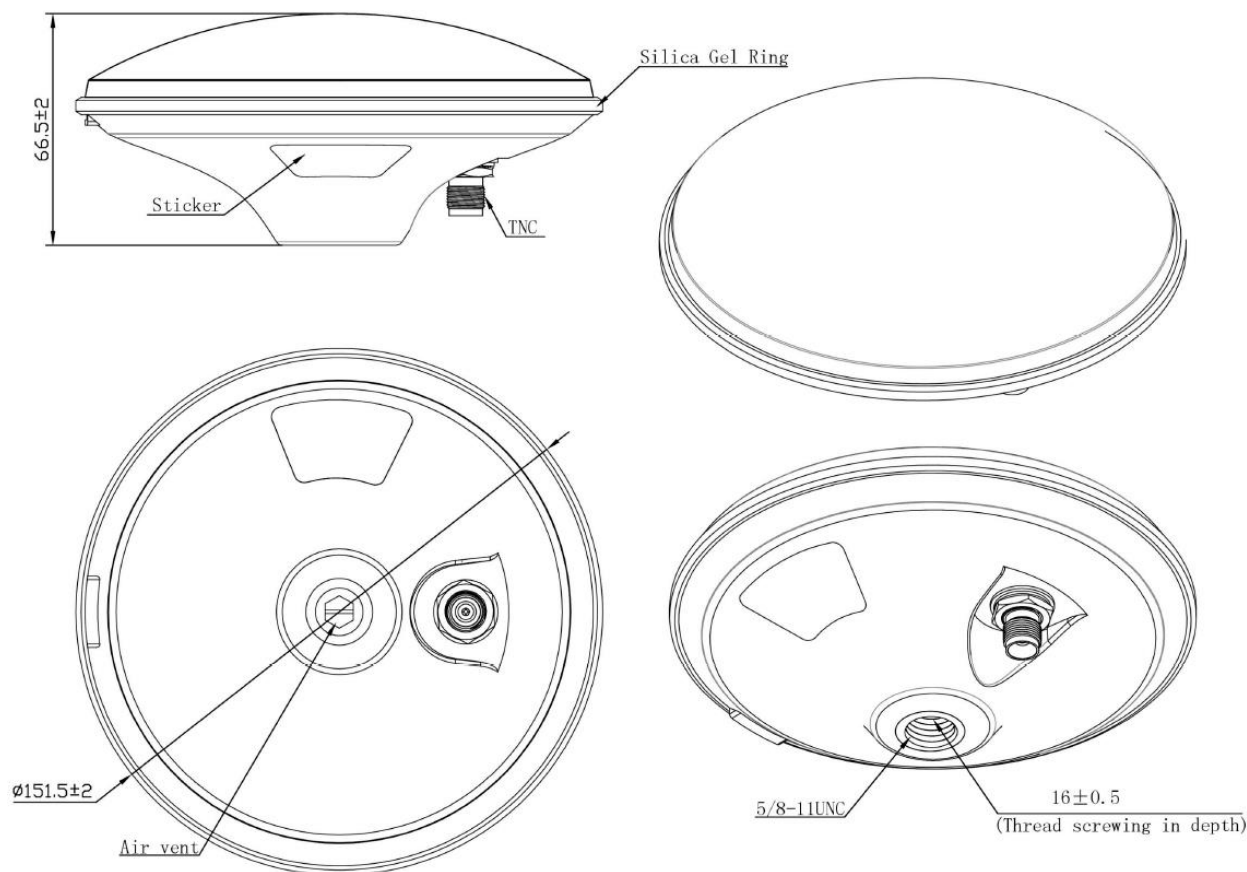
LNA

PARAMETERS	VALUE	UNIT
Gain	40 ± 2	dB
Noise Figure, max	1.5	dB
Passband Fluctuation	± 1.5	dB
Supply Voltage	3 ~ 12	V DC
Current Consumption, max	50	mA
VSWR, max	2	-

MECHANICAL & ENVIRONMENTAL

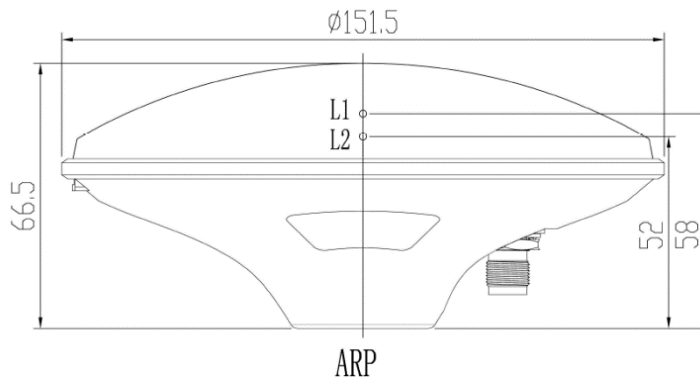
PARAMETERS	VALUE	UNIT
Connector	TNC-K	-
Radome Material	ASA	-
Operating Temperature Range	-40 ~ +85	°C
Relative Humidity, max	95	%
Ingress Protection (Exclude Air Vent in Screw Hole)	IP67	-
Mounting Method	Screw (Steel)	-
Environmentally Friendly	RoHS Compliant	-

MECHANICAL SPECIFICATION



Unit: mm

■ ANTENNA REFERENCE POINT & PHASE CENTER



Mechanical Offsets Units in “mm”

■ APPROVAL

RALTRON	
DRAWN BY:	AR, AR, June 09, 2020
APPROVED BY:	CP, AR, June 09, 2020
REVISION:	A, Initial Release
	B, AR July 28, 2020 Added Group Delay Variation
	C, AR August 31, 2020 Updated the Current Revision Levels
	D, AR September 14, 2020 Updated the Current Revision Levels



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