

SPECIFICATIONS

ELECTRICAL:

FREQUENCY (MHz):	GPS (L1 or L1/L2, See P/N in Bottom Table)				IRIDIUM		WIFI	
	L1: (1575 ±13)		L2: (1227 ±13)		(1610 - 1626)		(2400-2500)	
RADIATION PATTERN:	HEMISPHERICAL				HEMISPHERICAL	OMNIDIRECTIONAL		
POLARIZATION:	RHCP				RHCP	VERTICAL (LHCP)		
VSWR:	< 2:1				< 2:1	< 2:1		
GAIN (dB):	F.S	4 ft G.P.	F.S	4 ft G.P.	F.S	F.S	4 ft G.P.	4 ft G.P.
@ 90° (Zenith):	+ 4.6	+ 2.9	+ 1.8	+ 5.3	0.0	+ 3.7	+ 1.8	
@ 10° Elevation (Ave):	- 2.5	- 1.8	- 4.2	- 2.3	- 7.5	- 3.2	- 1.8	
@ 20° Elevation (Ave):	- 1.1	+ 0.7	- 2.9	+ 0.4	- 5.5	- 1.6	+ 0.9	
@ 30° Elevation (Ave):	+ 0.5	+ 1.7	- 2.0	+ 2.3	- 4.0	- 0.2	+ 0.2	
@ 60° Elevation (Ave):	> 3.6	> 2.1	> 0.9	> 3.2	- 2.3	+ 3.2	+ 0.6	
BEAM WIDTH:	103°	146°	108°	74°	98°-106°			
AXIAL RATIO @ Zenith:	2 dB				2 dB			
POWER HANDLING:	1 Watt				30 W			
LIGHTNING PROTECTION:	DC GROUNDING				DC GROUNDING			
FILTER:	2 2-POL							
LNA GAIN:	(33.0±1.0) dB				N/A			
LNA P 1dB Out:	+16 dBm				N/A			
LNA NOISE FIGURE:	2.9 dB (Filter loss is Included)				N/A			
VOLTAGE/CURRENT:	(+2.8 TO +28) Volts DC / (30 TO 50) mA				N/A			

MECHANICAL:

SIZE: WIDTH: 2.20 in. [55.88 mm], LENGTH: 5.026 in [127.66 mm]
HEIGHT: 0.925 in. [23.48 mm]

WEIGHT: 25.75 oz. (730 g)

FINISH: TEFLON COATED

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT

CONNECTOR: CN4 CABLE
(OPTION: SMA, TNC, BNC, MCX, or MMCX)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	2
1	O-RING	2-038-N756-75	-	-	1

CONFIGURATION:	FREQ. BAND:	POLARIZATION:	LNA:	GPS/IRIDIUM/IR MIXM CON.:	COLOR:
1: 2" SQ. (FLAT)	15161: L1 GPS/IRIDIUM	R: GPS/IRIDIUM	A2: WITH LNA	S: SMA: P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.5: 1.5" SQ. (FLAT)	15161S: L1 GPS/IRIDIUM/L-Band	L: WIFI	P: WITHOUT LNA	M: MCX: MM: MMCX	-2: LUSTERLESS GRAY #38320 PLR FED-STD-595B
2: 2.6" DIA. (FLAT)	15162S: L1 GPS/IRIDIUM/WI-FI	A: 33dB	N: N: NB: N-Bulkhead	T: TNC; TB: TNC-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	12162S: L1/L2 GPS/IRIDIUM/WI-FI				-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)	551R2S: L1/L2 GPS/GLONASS/IRIDIUM/WI-FI				-5: DESERT TAN #33446 PER FED-STD-595B
5G: (5.0x2.2in Rect.)					-U: UNDERWATER
5B: (HELI-X BLADE)					
3D: (HELI-X HANDHELD)					

P/N: S5GG5IR25-APP-40CN4X-UUO