ANTENNA PRODUCT MATRIX

G4, G6-S, G6-SL & MX2 ANTENNA OPTIONS

Five Guardian antenna options. Pick by terminal, mounting position and installation.



COMPATIBLE WITH **G4** **MX2**

Dual Patch Antenna

Guardian PN **101892**

- Adheres to the aircraft windshield
- Iridium and GPS antenna for the G4 external ports
- No roof-mounted installation needed

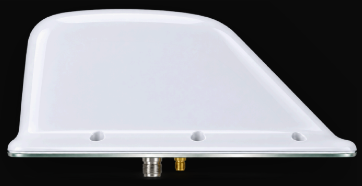


COMPATIBLE WITH **G4** **MX2**

Dual Iridium/GPS Patch Antenna TSO

Guardian PN **101946**

- Installed on top of the aircraft
- Iridium and GPS in one TSO antenna
- Fixed, certified-install option for the G4



COMPATIBLE WITH **G6-S**

IRIDIUM CERTUS 100 + GPS

Blade Antenna with GPS 'TSO'

Sensor Systems **S65-5366-446** · Guardian PN **102241**

- Helical Iridium antenna plus passive L1 GPS patch in one radome
- Two connectors: J1 SMA (GPS), J2 TNC (Iridium)
- DO-160G, DO-262F, TSO C159e · up to 55,000 ft



COMPATIBLE WITH **G6-S**

IRIDIUM CERTUS 100

Puck Antenna 'TSO'

AeroAntenna **AT1621-385** · Guardian PN **102565**

- Iridium Certus 100 antenna, remote mount
- TNC female, 20 W power handling
- DO-160G, DO-262F, TSO C159E · up to 70,000 ft



COMPATIBLE WITH **G6-SL**

IRIDIUM CERTUS COMPATIBLE · THROUGH-HOLE MOUNT

Land Antenna

Maxtena **M1621HCT-LP-SM** (100-00101-01) · Guardian PN **TBC**

- Low-profile Iridium antenna, ground plane independent, 147° beamwidth, 2.5 dBic peak gain
- TNC female, 19 mm through-hole mount · IP66 · -40°C to +85°C

Which antenna?

G4 & MX2 — Iridium all-in-one devices

Internal G4 (101817): antennas built in, displayed on the dash.
G4 External (101818) and G4 ME (101863) need an external antenna: **101946** on top of the airframe, or **101892** adhered to the windshield.
Both antennas also support the **MX2**.

G6-S & G6-SL — external antenna

Choose the **Blade (102241)** for Iridium and GPS from one airframe mounting point.
Choose the **Puck (102565)** for an Iridium Certus 100 antenna, with a wider operating range (-55°C to +85°C, 70,000 ft).
Choose the **Land antenna** for a through-hole mount on vehicles and other land installations (G6-SL).

Side-by-side comparison

	DUAL PATCH (WINDSHIELD)	DUAL IRIDIUM/GPS PATCH TSO	BLADE WITH GPS SENSOR SYSTEMS	PUCK AEROANTENNA	LAND MAXTENA
IDENTIFICATION					
GUARDIAN PN	101892	101946	102241	102565	TBC
MANUFACTURER PN	*Not on sheet*	*Not on sheet*	S65-5366-446	AT1621-385	M1621HCT-LP-SM
COMPATIBLE WITH	G4, MX2	G4, MX2	G6-S	G6-S	G6-SL
SERVICE	Iridium + GPS	Iridium + GPS	Iridium Certus 100 + GPS	Iridium Certus 100	Iridium CERTUS compatible; SFX / SBD
INSTALLATION					
MOUNTING	Adhered to the windshield	Top of the aircraft	Airframe; ground plane of at least 4 ft	Airframe; helicopter: far forward, axis within 10° of vertical	Through-hole, 19 mm (M18 × 1)
CONNECTORS	*Not on sheet (G4 has 2× SMA: GPS, Iridium)*	*Not on sheet (G4 has 2× SMA: GPS, Iridium)*	J1 SMA (GPS) J2 TNC (Iridium)	TNC female	TNC female
IRIDIUM CABLE LOSS	*Not on sheet*	*Not on sheet*	1 dB max.	0.84 dB max.	*Not on sheet*
MAX IRIDIUM RUN	*Not on sheet*	*Not on sheet*	LMR-400 4.0 m LMR-195 1.4 m	LMR-400 3.3 m LMR-195 1.1 m	*Not on sheet*
MAX GPS RUN	*Not on sheet*	*Not on sheet*	LMR-100-FR 7 m · LMR-195-FR 15 m · LMR-240-FR 20 m	n/a (Iridium only)	n/a (Iridium only)
RF AND ENVIRONMENT					
FREQUENCY	*Not on sheet*	*Not on sheet*	GPS 1575.42 ± 3 MHz Iridium 1616.0–1626.5 MHz	Iridium 1616–1626.5 MHz	1616–1626 MHz
POLARIZATION	*Not on sheet*	*Not on sheet*	RHCP	RHCP	RHCP
VSWR	*Not on sheet*	*Not on sheet*	GPS ≤ 2.0:1 · Iridium ≤ 1.8:1	≤ 1.8:1	2.0:1
GAIN	*Not on sheet*	*Not on sheet*	+1 dBc typical	+0.04 dBic at 0° to +1.40 dBic (0°–45°)	2.5 dBic peak (typical)
POWER HANDLING	*Not on sheet*	*Not on sheet*	10 W typical	20 W	*Not on sheet*
OPERATING TEMP.	*Not on sheet*	*Not on sheet*	-55°C to +70°C	-55°C to +85°C	-40°C to +85°C
ALTITUDE	*Not on sheet*	*Not on sheet*	55,000 ft	70,000 ft	*Not on sheet*
PHYSICAL AND CERTIFICATION					
WEIGHT	*Not on sheet*	*Not on sheet*	0.68 kg (1.5 lb)	0.32 kg (0.70 lb) max.	125 g (0.28 lb)
SIZE (L × W × H)	*Not on sheet*	*Not on sheet*	273 × 96 × 116 mm	See product sheet drawing	79.5 mm dia. × 38 mm
RADOME	*Not on sheet*	*Not on sheet*	Ultem, gloss white	ULTEM 2200, white FED-STD-595 17925	PC/ASA plastic, black
STANDARDS	*Not on sheet*	TSO antenna (see G4 sheet)	DO-160G, DO-262F, TSO C159e	DO-160G, DO-262F, TSO C159E complete	IP66, RoHS

"Not on sheet" marks values the source product sheets do not publish. Specifications may vary without notice. Land antenna: Maxtena Inc. data; Guardian part number to be confirmed. All installations must be certified (STC, LSTC, 337 or local equivalent) and carried out by a qualified installer. Keep Iridium antennas at least 12 in from people and 36 in from other external antennas.

Scan for more information

BLADE ANTENNA
Sensor Systems · 102241

LAND ANTENNA
Maxtena · M1621HCT-LP-SM

PUCK ANTENNA
AeroAntenna · 102565