

Used as a standalone relay or paired with a mobile phone, the mobile mesh network delivers mission-critical situational awareness beyond the edge of traditional connectivity. The goTenna Pro X2 is interoperable with the goTenna Pro X.

Long-range

Tested up to:

- 15 miles line-of-sight with standard, body-mounted configuration.
- 55 miles line-of-sight with an elevated ground relay.
- Over 100 miles using an aerial relay.

Low Profile

Proven to be difficult to detect. Utilizes short burst transmission, frequency hopping, and Aspen GroveTM Mesh Network protocols.

ATAK Compatible

Directly share location, messages, and more with the goTenna-ATAK plugin.

Longer mission endurance

9 hours per charge for standard missions.

Secure

Secure broadcast, private, and group messaging using AES 256-bit encryption.

Ruggedized

MIL-STD-810 compliant.



goTenna Pro App iOs & Android



ATAK Android

Lightweight

Significantly lighter than standard radio options at 3.5 oz (100g).

Rapidly Deployable

100% off-grid network setup for teams in minutes.

Advanced Power Management

Seamless operation in power-limited configurations for solar relays, device tethering, and more.

Configurable Antennas

Standard options include compact and performance antenna options, along with ability to integrate with vehicle-mount and directional antennas for extended range.

Scalable

More than 60 nodes demonstrated in a single network in routine operation.



goTenna Pro X2 Spec Sheet

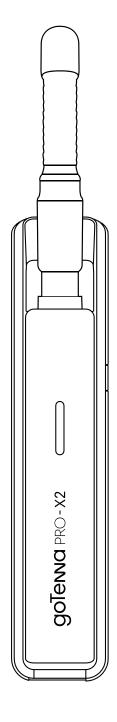
Antenna Port	SMA
Interfaces	
Power Management	Auto Power-On (Solar Mode) Charge Control (Tether Mode)
Battery Capacity	Li-lon, 474mAhr, 3.51Whr
Battery Life (Nominal)	Up to 9 hours***
Battery Life (Standby)	Up to 30 hours
Power	Class III, Divisions 1 and 2
Intrinsic Safety	Class I and II, Division 2
Ingress Protection	IP68 (10 meters for 30 minutes)
Ruggedization	MIL-STD-810
Storage Temperature	0 to 45 C
Operating Temperature	-20 to 60 C
Environmental	40101(
Power Output Settings Modulation	0.5W, 1.0W, 2.0W, 5.0W (27dBm, 30dBm, 33dBm, 37dBm) 4GFSK
Sensitivity (1% BER, 25 kHz)	
Sensitivity (1% BER, 12.5 kHz)	-111 dBM -107 dBm
Frequency Stability (-30°C, +60°C, +25°C Ref)	2.5ppm -111 dBM
Channel Bandwidth	12.5 kHz, 25 kHz (User Selectable)
Channel Randwidth	445 to 480 MHz
Transceiver VHF Frequency	142 to 175 MHz**
Recommended Hop Count	6*
Mesh Networking Protocol	Aspen Grove [™]
Mesh Networking	
CE	Certified
IC ID	21842-3733772
FCC ID	2ABVK373372
Weight	3.5 oz (100g)
Radio Dimensions HxWxD	5.5 x 1.2 x 0.75 in / 13.46 x 2.75 x 1.78 cm

Mil Std 810G/H	Method	Procedure
High Temperature Storage	501.5	1
High Temperature -Tactical Standby	501.7	III
Low Temperature Storage	502.5	I
Low Temperature Operation	502.7	II
Thermal Shock	503.5	I
Rain	506.5	I
Humidity	507.5	II
Salt Fog	509.5	1
Sand and Dust	510.5	1&11
Immersion	512.6	I
Vibration	514.8	I
Shock	516.5	VI



^{*} User configurable to higher hop counts based on use case and mission.

** VHF is intended for fixed and mobile antenna mounting configurations. For other configurations, including portable, please contact goTenna.





^{***} Dependent on the number of units in the network, number of hops, and how often transmission occurs.