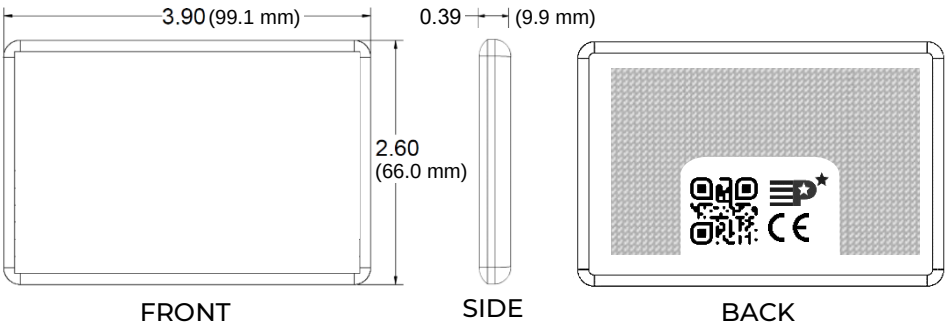
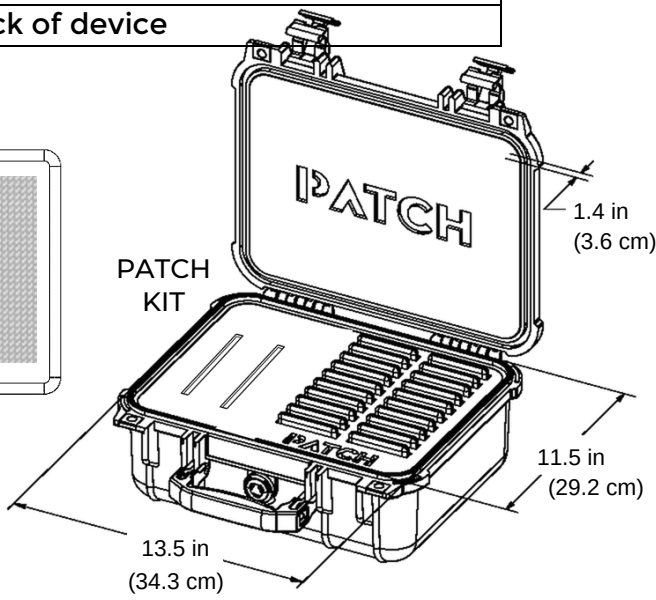
PATCH KIT SPEC SHEET

DESCRIPTION: The PATCH Kit consists of 20x PATCH devices packed in a waterproof hard case with a dual-pad wireless charger.

SIZE & WEIGHT	
PATCH Device Dimensions	3.90 x 2.60 x 0.39 in (99.1 x 66.0 x 9.9 mm)
PATCH Device Weight	2 oz. (57 g)
PATCH Kit Dimensions	13.5 x 11.5 x 5.8 in (34.3 x 29.2 x 14.7 cm)
PATCH Kit Weight	8.5 lbs (3.9 kg)
DEVICE NETWORKING & COMMUNICATIONS	
Transceiver Frequency	902-928 MHz
Output Power	50 milliwatts
Network Security	256-bit Advanced Encryption Standard (AES-256)
Network Type	Peer-to-peer (P2P) ad hoc mesh network
Range (Nominal)	4 miles (6.4 km) on land, 10 miles (16.1 km) on water
Data Packet Size	50 bytes
Edge Computing	32-bit ARM® Cortex® processor, 256 KB flash and 40 KB of SRAM, with additional programmable memory
DEVICE POWER	
Battery Type & Capacity	Rechargeable LiPo pouch, 550 mAh
Battery Life	12 hours between charges
Battery Charging	Qi wireless charging, 3 hour charging time
DEVICE SENSOR PACKAGE	
3-axis accelerometer; 3-axis gyroscope; GNSS module capable of receiving geolocation and global clock data from three satellite constellations concurrently.	
ENVIRONMENTAL	
Ingress Protection	IP68, waterproof to 25 fsw (7.6 msw)
INTERFACES	
Bluetooth®	Bluetooth® v5.0
Device Attachment	Velcro-style hook on back of device





MADE IN USA

U.S. and Foreign Patents Pending
U.S. Patent No. 12,720,560 B2
U.S. Design Patent No. D1019592
International Design Reg. No. DM/217 510
Australian Design Reg. Nos. 202117020, 20211721–20211724
Canadian Design Reg. Nos. 208644–208648