DATASHEET
ELC.10 - EDGE IoT Starter Kit
with High Precision GNSS and RTK

Build a cloud-powered IoT application in minutes with the Taoglas® precertified **EDGE IoT Starter Kit**.

Industry's most comprehensive IoT Starter kit including cellular, Bluetooth, on-board sensors, multiband GNSS and RTK, and cloud based management platform.

The Taoglas EDGE IoT Starter Kit is preconfigured with an active cellular data plan.

- High precision GNSS with RTK capabilities allows for gathering of high precision positioning data in minutesIntegrated onboard sensors such as temperature, humidity, accelerometer, gyroscope, magnetometer, light and air pressure
- Cellular support for LTE, 3G, 2G, Cat-M, NB-IoT to give a global coverage footprint
- Contains rechargeable battery with multi year battery performance
- Predictive insights that drive optimization and new revenue opportunities
- Built with EDGE Insights cloud-based enterprise-level software platform with network, sensor, security and data management
- Completely cloud configurable EDGE hardware (no need to change device firmware)
- Easy 3rd party sensor and machine interfacing and integration through server side Sensor Management System
- Over-The-Air (OTA) updates and device diagnostics
- Supported by a full IoT security stack, power, device management and Data-as-a-Service out of the box
- Includes 1 month of EDGE Insights™ and cellular data subscription*

Key Benefits

- Can help you build your IoT prototype in minutes
- OEM boards inside can be customized and purchased separately for new product introductions
- Reduce the cost and complexity of introducing IoT strategies into enterprises avoiding lengthy design, development, integration, testing, data services and customization spend with fast time-to-value
- Provides real-time sensor and positioning data and can enable real-time intelligence from the EDGE instantly

* Includes 1 month subscription of HxGN SmartNet

Typical Applications

Ground Robotics Navigation | Lane-level Navigation | Vehicle Telematics & Asset Tracking | Heavy Machine Navigation | Connected Vehicles | e-Bike & Scooters | Commercial UAV | Precision Agriculture | IoT Gateways | Smart Metering | Smart Medical | Smart Lighting

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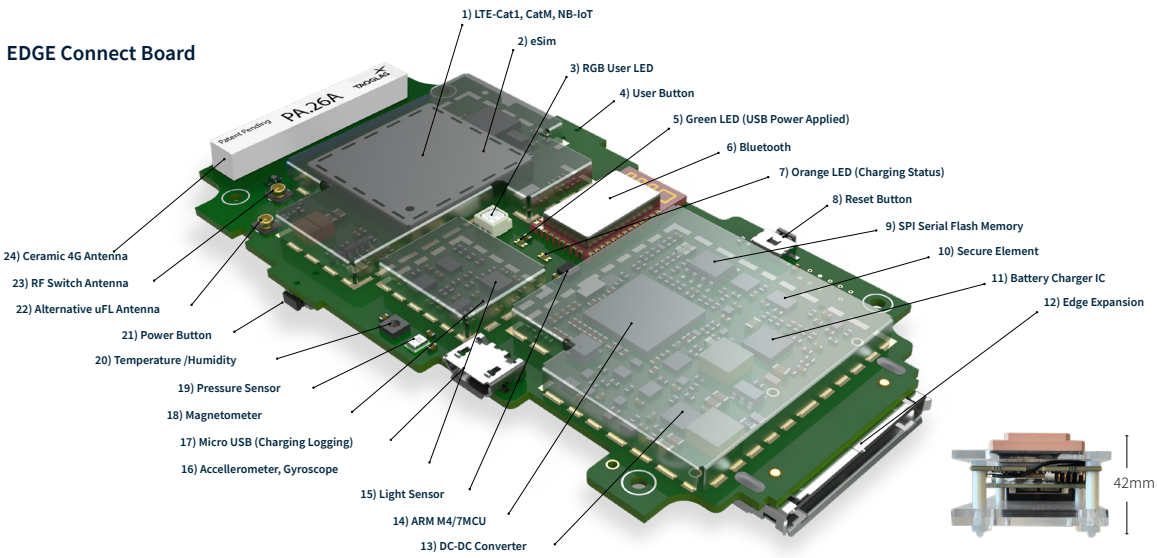
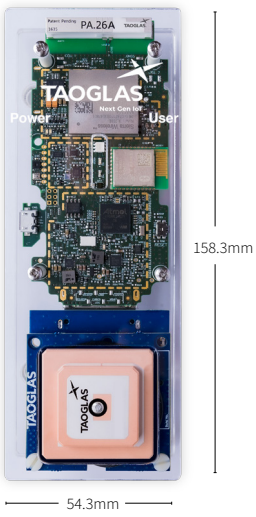
PRODUCT SPECIFICATIONS		ELC.10B	ELC.10L
System	Processor	ARM Cortex M7 (300MHz)	
	RAM	384 KB	
	Flash	2048 KB	
	Firmware/OS	RTOS + Applications Libraries (Real Time Performance)	
	Security	Cloud Mutual authentication, hardware root of trust, secure key storage	
Radios	Cellular	LTE US with 3G fallback	LTE EMEA with 2G fallback
	Cellular Bands	**4G** (B2, B4, B5, B17) **3G** (B2, B5)	**4G** (B3, B8, B20) **2G** (900, 1800MHz)
	Carrier Acceptance	Vodafone acceptance, other carriers to follow	
	GNSS, RTK	GPS/GLONASS/Galileo/BEIDOU (Optional RTK)	
	Bluetooth	BLE 4.2	
On-board sensors	Temperature	Range: -40 to 125 °C Accuracy: ±0.3 °C (Standard), ±0.2 °C (High-End Version)	
	Humidity	Range: -40 (-104°F) to 125 °C (257°F) Accuracy: ±0.3 °C (32.5°F) (Standard), ±0.2 °C (32.3°F) (High-End Version)	
	Light	Range: 0.045-188,000 Lux	
	Atmospheric Pressure	Range: 300 … 1100 hPa Accuracy: typ. ±1 hPa	
	Accelerometer	Range: up to ± 16g Accuracy: up to 16384 LSB/g with 16 bit resolution	
	Gyroscope	Range: up to 2000°/s Accuracy: up to 262.4 LSB/°/s with 16 bit resolution	
	Magnetometer	Range: ±1300µT (x, y-axis), ±2500µT (z-axis) Accuracy: ~0.3µT	
Expansion	External Connector	RS485, CAN, UART, GPIO, PWM, ADC, I2C, SPI	
Physical	Operating temperature	-20°C (-4F) to +60°C (140F)	
Power		Voltage: 3.2V – 4.5V, Current 2A- 3A	
Battery		2400 mAh rechargeable lithium battery Charging temperature 0°C (32F) to +45°C (113F)	
EDGE Insights and Data Plan		Includes 1-month EDGE Insights subscription and cellular data plan*	

* Includes 1 month subscription of HxGN SmartNet

EDGE Connect Board





Dimensions: 158.3*54.3*42mm
Weight: 200g

For further details go to **www.taoglas.com/product/taoglas-edge-iot-starter-kit**

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