

DATASHEET

EC.20 - EDGE™ Connect

Instant IoT



The Taoglas **EDGE™ Connect** enables real-time insights and intelligence to help your enterprise save costs, increase revenue and enhance compliance. Next-generation IoT device with cellular, Bluetooth and on-board sensor capabilities with a cloud based connectivity and device management platform.

Your fastest time-to-market for a vast variety of IoT applications

Key Benefits

- Reduce the cost and complexity of introducing IoT strategies by avoiding lengthy design, engineering, installation, activation, device management, services and customization
- The **EDGE™ Connect** provides real-time sensor and positioning data (optional accessory) and can enable intelligence from the EDGE instantly
- Optional GNSS expansion board for location services
- Works anywhere with cellular connectivity
- Global coverage for LTE and NB-IoT
- Includes **EDGE Insights™** cloud-based software platform, providing a scalable out-of-the-box solution for easy control, activation, maintenance and secure management
- Completely cloud configurable EDGE hardware
- 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
- SIM management and optional subscription plans
- Easy 3rd party sensor/actuator expansion interface

Key Features

- Pre-certified
- Low-power
- High performance
- Secure architecture

Typical Applications





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PRODUCT SPECIFICATIONS		EC.20B	EC.20L	EC.20N
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	Global NB-IoT and CatM
	Frequency Bands	4G (B2, B4, B5, B17) 3G (B2, B5)	4G (B3, B8, B20) 2G (900, 1800MHz)	B1, B2, B3, B4, B5, B8, B9, B10, B12, B13, B14, B17, B18, B19, B20, B25, B26, B27, B28, B66
	Carrier acceptance	Vodafone acceptance, other carriers to follow		
	GNSS	GPS/GLONASS/Galileo/BeiDou (use external antenna)		
	Bluetooth	BLE 4.2		
Expansion Options	GNSS			
On-board sensors	Temperature	Range: -40°C (-104°F) to 125°C (257°F) Accuracy: ±0.3°C (32.5°F) (Standard), ±0.2°C (32.3°F) (High-End Version)		
	Humidity	Range: 0 to 100%RH Accuracy: ± 3% RH (Standard), ± 1.5% RH (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 (-4°F) to +60°C (140°F)		
Dimensions		110.5*56*20mm (134*56*20mm with optional GNSS Expansion Module)		
Weight		93g (107g with optional GNSS Expansion Module)		
Power		Voltage: 3.2V – 4.5V, Current 2A- 3A (CatM/NB-IoT EC.10N - 4.35V)		
Battery		1200 mAh rechargeable lithium battery Charging temperature 0°C (32°F) to +45°C (113°F)		
EDGE Insights™ and data plan		Includes 1-month EDGE Insights™ subscription and cellular data plan		



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