

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

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
	Cellular Bands		Optional SKU's (2G, 3G, 4G, NB-IOT, CAT-M)	
	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 (-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 ± 16 g 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: $\pm 1300\mu$ T (x, y-axis), $\pm 2500\mu$ T (z-axis) Accuracy: $\sim 0.3\mu$ T		
Expansion	External Connector	RS485, CAN, UART, GPIO, PWM, ADC, I2C, SPI		
Physical	Operating temperature		-20°C (-68°F) to +80°C (176°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		
EDGE Insights and data plan		Includes 1-month EDGE Insights subscription and cellular data plan		



For further details go to www.taoglas.com/product/edge-connect