



# Mobile IoT GEN2 Gateway

## Product Technical Specifications

<b>Cellular Connectivity</b>	North America LTE Cat 1 with Global 3G/2G fallback	FDD-LTE: bands 2, 4, 12 WCDMA: bands 1, 2, 4, 5, 8 Quad Band GSM: 850, 900, 1800, 1900 MHz
<b>GNSS</b>	Constellations	GPS, GLONASS, Galileo, BeiDou
<b>Wi-Fi</b>		802.11 a/b/g/n 2.4GHz and 5GHz
<b>Antennas</b>		Bluetooth 4.2
<b>Digital Core</b>	Applications Processor	NXP i.MX 6ULL Cortex A7 792MHz
	RAM	512MB DDR3L
	Flash	8GB eMMC v5.1
	SPI NOR (optional)	32MB
	Lower Power MCU	ARM Cortex M0+ 16kB flash, 2kB RAM
<b>Interfaces</b>	Main Connector	Deutsch: DT13-12PA Recommended mating connector: DT06-12SA
	CAN	2 x CAN 2.0B
	Ethernet	M12 connector (4-pin) 10Base-T / 100Base-TX
<b>Power Supply</b>	Input Voltage Range	12V / 24V (6V – 32V)
<b>Power Supply Monitor</b>		Yes, via ADC
<b>Backup Power Supply</b>		A 5F 2.7V Supercapacitor Holdup time > 5 seconds
<b>Ignition Input</b>		1 x Ignition input (0 – 32V) Vin, low(max) = 1.70V Vin, high(min) = 4.23V Note: ignition input is also fed to ADC input of the low power microcontroller.
<b>Digital Input</b>		1 x Digital input (0 – 32V) pull down with option to enable 20kΩ pull up resistor to power supply input voltage through software. Vin, low(max) = 1.40V Vin, high(min) = 3.48V
<b>Digital Output</b>		1 x Low-side drive up to 1A

<b>Accelerometer</b>		3-axis accelerometer and 3-axis gyroscope IMU ±125 to 2,000 dps gyroscope ±2g to 16g accelerometer
<b>RTC</b>		Yes, backed up by coin cell battery > 10 years backup
<b>Sleep Current</b>		< 600uA @ 12V input
<b>Wake Sources</b>		Ignition, IMU, RTC
<b>Environmental</b>	Operating Temperature	-30°C to +75°C
	Storage Temperature	-40°C to +85°C
	Protection	IP67
<b>Physical Specifications</b>	Dimensions	151 x 135 x 56.5mm
<b>External Shell</b>	Housing	PBT + 15%GF
	Color	Black
<b>Mounting Item</b>		Screw mount on surface
<b>Compliance</b>	Operating Random Vibration	10Hz, 1000Hz, 2000Hz
	Reverse Voltage Protection	up to -36V
	Load Dump	ISO 16750 Test Pulse 5a, up to 202V
	ESD	+/- 15kV Air, +/- 8kV Contact
<b>Operating System</b>		Linux
<b>Certifications</b>	USA	FCC 47 CFR part 15
	Canada	ISED RSS
	Europe	CE 2014 / 53 / EU
	Australia and New Zealand	RCM
	South Africa	ICASA
	Zimbabwe	POTRAZ

