

Multi-Service IoT Gateway Automotive Grade, LTE Cat 1 and IP67

DynaGATE 10-06

- Automotive Grade (E-Mark, SAE/J1455)
- Internal LTE Cat 1 (NA, EU, JP)
- Rugged
- Internal UPS
- ARM Powered
- Open Platform
- Customizable



FEATURES

Automotive Grade - E-Mark and SAE/J1455 certifications, GPS with Dead Reckoning, 6-32V power supply with ignition sense, surge, noise, reverse polarity, overvoltage and short protection

Internal LTE Cat 1 (NA, EU, JP) - Carrier certified LTE Cat 1 cellular modem with European, North American and Japanese variants, ready for immediate deployment

Rugged - IP67 ingress protection with rugged connectors, wide operating temperature range and a sturdy metal enclosure

Internal UPS - Includes a rechargeable internal 2000mA/h UPS to provide up to 5 minutes of operation and safe shutdown

ARM Powered - Powered by NXP i.MX 6UltraLite CPU to deliver performance and power efficiency

Open Platform - Featuring Everyware Software Framework (ESF), the IoT Java/OSGi based-middleware for IoT gateways that accelerates gateway development and enables remote management

Customizable - Personalization and full customization options are available, ranging from branding ("skins" and color) to deep HW/SW configurations

The DynaGATE 10-06 is a Multi-service IoT Gateway that has been designed to deliver LTE connectivity with 2/3G fallback to automotive and lightly rugged applications.

Based on the NXP i.MX 6UltraLite Cortex-A7 processor family, with 512MB of RAM, 4GB of eMMC and a user-accessible microSD slot, the DynaGATE 10-06 is a low power gateway suitable for demanding use cases: it supports a 6 to 36V power supply with protections and vehicle ignition sense, three protected RS-232/RS-485 serial ports, two CAN bus interfaces, one noise and surge protected USB ports, and two protected digital interfaces.

The DynaGATE 10-06 features a wide range of connectivity capabilities: it integrates an internal LTE Cat 1 cellular modem with dual Micro-SIM support, Wi-Fi, Bluetooth Low Energy, a dedicated GPS with Dead Reckoning and two Fast Ethernet ports.

A rechargeable internal 2000mA/h battery provides uninterrupted operation for up to 5 minutes in the event of power failure and permits a safe shutdown.

The unit complies with popular automotive certifications, such as E-Mark, SAE/J1455 ensuring reliable operation even in the harshest conditions with IP67 ingress protection, wide operating temperature range and rugged connectors (AMPSEAL and M12).

The DynaGATE 10-06 comes with a genuine Oracle Java SE Embedded 8 Virtual Machine and Everyware Software Framework (ESF), a commercial, enterprise ready edition of Eclipse Kura, the open source Java/OSGi middleware for IoT gateways.

Distributed and supported by Eurotech, ESF adds advanced security, diagnostics, provisioning, remote access and full integration with Everyware Cloud (EC), Eurotech's IoT integration platform (separately available).

DynaGATE 10-06

Specifications

Multi-Service IoT Gateway Automotive Grade, LTE Cat 1 and IP67

Ordering code: **DYGATE-10-06-XX**

XX		- 31	- 32	- 33	- 34	- 35	- 36	- 37	
PROCESSOR	CPU	i.MX 6Ultralite, 528MHz, Single Core							
MEMORY	RAM	512MB DDR3L							
STORAGE	Embedded	4GB eMMC							
	Other	1x microSD Slot (User Accessible)							
I/O INTERFACES	Ethernet	2x 10/100Mbps on M12							
	USB	1x Host 2.0 (Noise and Surge Protected) - Type A (User Accessible)							
	Serial	3x RS-232/RS-485 (Three-wire, Non-isolated, Surge Protected, RS-485 Termination and Fail-safe Resistors) - 1x Serial Console TTL (User Accessible)							
	CAN 2.0B	2x CAN bus (Non-isolated)							
	Digital I/O	1x Ignition Key (Surge Protected), 1x Odometer (Surge Protected, Configurable Input Threshold)							
RADIO INTERFACES	Cellular	No			LTE Cat 1 (NA)	LTE Cat 1 (NA) 3G Fallback	LTE Cat 1 (EU) 2G Fallback	LTE Cat 1 (JP)	
	GPS	No	72 channels (GPS, Galileo, GLONASS, BeiDou), with Dead Reckoning						
	Wi-Fi	No			802.11a/b/g/n				
	BLE	No			BLE 4.2				
	Antennas (External)	No	1x SMA GPS	1x SMA GPS 2x RP-SMA Wi-Fi/BT	3x SMA Cellular, GPS 2x RP-SMA Wi-Fi/BT				
OTHER	UPS	No	Internal battery: 2000 mA/h, Ni-MH (Factory Option: Li-ion)						
	RTC	Yes (Supercap)							
	Watchdog	Yes - Dedicated Chip							
	EEPROM	256kbit							
	TPM	No (Factory Option: TPM 1.2)							
	Sensors	Temperature, Accelerometer							
	LEDs	1x Power, 1x Cellular, 2x Programmable							
MISC	SIM Slot	No			2x Micro-SIM (User Accessible)				
POWER	Input	6-36VDC, with Surge, Noise, Reverse Polarity, Overvoltage and Short Protection, Vehicle Ignition Sense Factory Option: Load Dump							
ENVIROMENT	Operating Temp	-40 to +85 °C							
	Storage Temp	-40 to +85 °C							
CERTIFICATIONS	Regulatory	FCC, ISED, CE, TELEC/JATE, VCCI			FCC, ISED		CE	TELEC/JATE, VCCI	
	Safety	EN 62368, UL [®] 60950							
	Vertical	E-Mark, SAE/J1455							
	Environmental	RoHS2, REACH							
	Wi-Fi / BT Radio	No	FCC, ISED, CE (RED)		FCC, ISED		CE (RED)	TELEC/JATE	
	Cellular Radio	No			FCC, ISED, PTCRB	FCC, ISED, PTCRB	CE (RED)	TELEC/JATE	
					Verizon	AT&T		NTT DoCoMo	
	IoT Platform	Microsoft Azure Certified							
	Ingress	IP67							
MECHANICAL	Enclosure	Aluminum							
	Dimensions	178x183x62mm (WxDxH) - With Mounting Flange and Connectors							

SOFTWARE

OS	Yocto Linux
IoT Framework	Everyware Software Framework (Java/OSGi)

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