



- **Performant**
- **IoT Ready**
- **Industrial and Automotive Grade**
- **Field Protocol Support**
- **Cloud Certified**
- **Open Platform**
- **Customizable**



Features

i.MX6 Powered - Powered by NXP i.MX6 CPU: great performance for industrial and lightly rugged applications

IoT Ready - Breadth of connectivity options: optional cellular modem, integrated GPS, Wi-Fi, BLE, dual Gigabit Ethernet and Fieldbus interfaces, including CAN bus ports, analog and digital I/Os, protected USB and serial ports

Industrial and Automotive Grade - Wide operating temperature, wide range power supply with transient protection, and SAE/J1455 certification

Field Protocol Support - Native support for Modbus, S7 and OPC UA, the extensible, secure, and platform-independent industrial interoperability standard

Cloud Certified - Seamless integration with Eurotech Everyware Cloud, Microsoft Azure, Amazon Web Services IoT and other Cloud services

Open Platform - Provides a Java/OSGi gateway middleware, to free the developer from proprietary solutions

Customizable - Flexible: personalization and full customization options are available, ranging from branding ("skin" and color) to deep HW/SW configurations

Description

The ReliaGATE 10-20 is an industrial grade Multi-service IoT Edge Gateway that provides communications, computation power and a simplified application IoT framework for platform integration.

The ReliaGATE 10-20 offers a variety of communication interfaces including cellular, Wi-Fi and Bluetooth, enabling connectivity to a wide range of sensors and edge devices essential in IoT applications. The ReliaGATE 10-20 also includes interfaces for wired connectivity such as Dual Gigabit Ethernet, CAN bus, analog and digital I/O, up to four serial ports and three USB ports.

The ReliaGATE 10-20 comes with Everyware Software Framework (ESF), a commercial, enterprise-ready edition of Eclipse Kura, the open source Java/OSGi middleware for IoT Edge Gateways.

Distributed and supported by Eurotech, ESF supports ready-to-use field protocols (including Modbus, OPC-UA, S7), MQTT connectivity, web-based visual data flow programming and deep configuration.

ESF is also integrated with Everyware Cloud (EC), Eurotech IoT Integration Platform (separately available), enabling advanced diagnostics, provisioning, and full remote device access and management.

The ReliaGATE 10-20 is Microsoft Azure certified and can also be integrated with 3rd party cloud services such as Amazon Web Services IoT.

Ordering code: REGATE-10-20-XX

XX		- 01	- 21	- 31
PROCESSOR	CPU	NXP i.MX6 800MHz, 1 Core		
MEMORY	RAM	512MB DDR3 (Factory Option: up to 2GB)		
STORAGE	Embedded	4GB eMMC (Factory Option: up to 64GB)		
	Other	1x microSD Slot (User Accessible)		
I/O INTERFACES	Ethernet	2x 10/100/1000Mbps - RJ45		
	USB	3x Host 2.0 - Type A		
	Serial	1x RS-232/422/485 + 1x Serial Console RS-232 – Factory Option: 1x RS-232/422/485 + 1x Serial TTL		
	CAN bus	1x CAN bus 2.0A		
	Digital I/O	4x Digital Input/Output, 5V Level Output, 5V Input Protected to IEC61000 (15kV)		
	Analog I/O	2x Analog Input (8-bit, 0-45V)		
	Audio	1x Single Channel Line Out, 1x Mic		
RADIO INTERFACES	Cellular	Optional Accessory: ReliaCELL 10-20 (3G/4G) – Factory Option: Internal Cellular		
	GPS	50-channel GPS L1		No
	Wi-Fi / BT	802.11 h a/b/g/n (Access Point and Client) Bluetooth 4.0 (BLE)	No	
	Antennas (External)	1x SMA GPS, 1x RSMA Wi-Fi/BT	1x SMA GPS	No
OTHER	RTC	Yes (User Accessible Battery)		
	Ext. Watchdog	Yes		
	EEPROM	16Mbit		
	Sensors	3-axis Accelerometer		
	LEDs	1x Power, 3x Programmable		
POWER	Input	6 - 36VDC (Nominal 12VDC), with Transient Protection, Vehicle Ignition Input and Sleep Mode		
	Consumption	4W Typ. (17W Max)		
ENVIRONMENT	Operating Temp	- 40 to +80°C		
	Storage Temp	- 40 to +85°C		
CERTIFICATIONS	Regulatory	CE, FCC, ISED		
	Safety	SAE/J1455 (Vibration), UL 60950-1 (§)		
	Environmental	RoHS2, REACH		
	Wi-Fi / BT Radio	RED, FCC, ISED		-
	IoT Platform	Microsoft Azure Certified		
	Ingress	IP40		
MECHANICAL	Enclosure	Material: Aluminum and Plastic - Color: Black Anodized		
	Dimensions	7.35"x5.1"x2.4" / 187x139x61 mm (LxWxH)		

Software

SOFTWARE	OS	Yocto Linux		
	SDK	Yocto-based Eclipse Tooling, Oracle Java SE		
	IoT Framework	Everyware Software Framework (Java/OSGi)		

(§) UL, NRTL listing Factory Option.

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