



- 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	802.11h 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), EN 60950-1, 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	7.35x5.1"x2.4" / 187x139x61mm (LxWxH)		

Software

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

(§) UL, NRTL listing Factory Option.

