

ReliaGATE 20-26, Powered by Red Hat®

- Truly Industrial
- Ready for Global Deployment
- Reliable Performance, Flexible Configurations
- Customizable to Your Needs
- Open Source Platform
- Edge Computing and Integration



POWERED BY RED HAT

FEATURES

Truly Industrial - Extended operating temperature, wide range power supply with surge and sag protection, isolated and protected DIO, protected USB and serial

Ready for Global Deployment - Features support Eurotech's ReliaCELL 10-20, the global cellular module with global carrier precertifications

Reliable Performance - Powerful and efficient: single, dual and quad core Intel Atom™ E38xx, with ECC memory for additional protection

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

Open Software Platform - Truly open, provides a programmable Java/OSGi gateway middleware, to free the developer from proprietary solutions

Edge Computing and Integration - Message routing and transformation, data filtering and aggregation, rules-based actions, providing intelligence at the edge

The ReliaGATE 20-26, powered by Red Hat®, is a high-performance, globally certified, IoT gateway for industrial and lightly rugged applications.

It features up to four cores, extended operating temperature support, wide range power supply, isolated and protected I/O interfaces, and customizable connectivity options.

To add global cellular connectivity and GPS, just plug in Eurotech's ReliaCELL 10-20, the carrier-certified module that enables immediate deployment (also available: internal cellular and GPS option - contact us for MOQ).

The ReliaGATE 20-26 comes with 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).

The ReliaGATE 20-26, powered by Red Hat, is tightly integrated Red Hat JBoss® Fuse, an open source, lightweight and modular integration platform and Red Hat JBoss BRMS, an open source rules management system. The ReliaGATE 20-26 runs on Red Hat Enterprise Linux, providing enterprise-grade reliability.

Used stand-alone, or in conjunction with EC, the ReliaGATE 20-26 provides a fast go-to-market solution for projects of any size.

Specifications

PROCESSOR	CPU	E3815, 1.46GHz, Single Core	E3827, 1.75GHz, Dual Core	E3845, 1.91GHz, Quad Core
MEMORY	RAM	2GB, 1333MHz, (DDR3L-ECC)		4GB, 1333MHz, (DDR3L-ECC)
STORAGE	Embedded	8GB eMMC		
	SATA	1xSATA, 1x mSATA (factory option)		
	Other	1x microSD Slot (User Accessible)		
I/O INTERFACES	Ethernet	2x 10/100/1000Mbps		
	USB	1x Host 3.0 , 1x Host 2.0, 1x ReliaCELL (Noise and Surge Protected)		
	Serial	2x RS-232/RS-422/RS-485 (9 Wires, Noise and Surge Protected), 1x Serial Console TTL		
	CAN 2.0B	1x CAN bus with 5V (100mA) Power Out		
	Digital I/O	3x Digital Input 7-35VDC, 1KV optoisolated - 3x Digital Output (40VDC), 20mA sink		
	Video	1x mini DisplayPort		
	Audio	Factory option		
EXPANSION	miniPCle Slots	3	2	3
RADIO INTERFACES	Cellular	Eurotech ReliaCELL 10-20 (carrier pre-certified) / Factory option (miniPCle)		
	GPS	Eurotech ReliaCELL 10-20 / Factory option		
	Wi-Fi / BT	No	b/g/n, BLE	No
OTHER	RTC	Yes (User Accessible Battery)		
	Ext. watchdog	Yes		
	EEPROM	256kbit		
	Sensors	Temperature, Accelerometer		
	LEDs	1x Power, 3x miniPCle Slot, 2x Programmable (Dual Color Green/Amber)		
	Buttons	1x Reset, 1x Programmable		
POWER	Input	7-35VDC (Nominal 12VDC), Surge and Sag Protection, Vehicle Ignition Input		
	Consumption	7W Idle	10W Idle	12W Idle
ENVIROMENT	Operating Temp	- 20 to +60°C	- 40 to +75°C	
	Storage Temp	- 40 to +85°C		
CERTIFICATIONS	Regulatory	CE, FCC, EN/UL60950, IC, PTCRB		
	Environmental	RoHS2; REACH		
	Wi-Fi/BT Radio	CE - EN300 328 (2.4 Ghz ISM), EN50371 (EMI), EN301 489 (EMC) FCC - 15.209 (General RF device), 15.247 & 15.249 (2.4 GHz ISM)		
	Cellular	Worldwide, with Carrier Certifications (See Eurotech ReliaCELL 10-20)		
	Ingress	IP40		
MECHANICAL	Enclosure	Anodized Aluminium (Contact us for custom enclosure color and skins)		
	Dimensions	192x131x52mm (WxDxH)		
SOFTWARE				
OS	Red Hat Enterprise Linux 7			
SDK	Red Hat JBoss Developer Studio - Red Hat Enterprise Linux Developer Suite			
Integration Platform	Red Hat JBoss Fuse			
Rules Mgmt	Red Hat JBoss BRMS			
IoT Framework	Everyware Software Framework (Java/OSGi)			

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