ReliaCELL 10-20

Ruggedized Cellular Adapter - 2G/3G/LTE and GPS



- **Global 2G/3G/LTE Cellular Support**
- **Easy Cellular Technology Migration**
- **Certified and Carrier Approved**
- **Rugged and Compact**
- **Easy Installation**
- **ESF Ready**

Features

Global 2G/3G/LTE Cellular - The ReliaCELL 10-20 is the ready-to-go solution to provide cellular connectivity for new and already existing projects of any size
Easy Cellular Technology Migration - Mix and match any ReliaCELL 10-20 model: 2G/3G/LTE variants share the same design allowing plug-in migration between cellular technologies
Certified and Carrier Approved - Instantly add at no extra cost cellular certifications and carrier approvals to any system
Rugged and Compact - Ideally suited for harsh environments with an impact-resistant and sealed IP67 enclosure
Easy Installation - Ready for deployment with standard Linux and Windows software drivers, and compatible with any device with a USB 2.0 interface
ESF Ready - Natively supported by Everyware Software Framework (ESF), the Eurotech OSGi middleware for IoT Edge Gateways

Description

The ReliaCELL 10-20 is a pre-certified, rugged cellular adapter that is easily mountable to flat surfaces. Deployable for products sold globally, this device modularizes the cellular component of embedded product development to allow it to be added to any system without incurring additional cellular certifications costs.
With its sealed and flexible design, the ReliaCELL 10-20 improves Time-to-Market and costs associated with the implementation of a cellular solution. It becomes an easy addition to existing or new applications with a simple USB 2.0 connection and SMA connectors for antennas.

The ReliaCELL 10-20 is offered in several cellular technologies, including the latest 4G LTE categories, providing the flexibility to upgrade any IoT application as the requirements evolve from 2G to 3G to 4G. It is possible to simply switch from a 3G to a 4G ReliaCELL 10-20 solution without changing the key components of the appliance and incurring significant hardware replacement costs.
The ReliaCELL 10-20 is supported by 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 adds advanced security, diagnostics, provisioning and remote access. It supports ready-to-use field protocols (including Modbus, OPC-UA, S7), MQTT connectivity, web-based visual data flow programming and deep configuration.

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EUROTECH

Ordering Code: RECELL-10-20-XX						
XX		-20	-36, -37	-43	-44	-45
CELLULAR	Technology	2G Quad Band GPRS	3G Penta Band HSPA+	4G LTE Cat 4 (UMTS/GSM Fallback)		4G LTE Cat 1
	Upload	16-24Kbps	Up to 5.76Mbps	Up to 50Mbps		Up to 5 Mbps
	Download	32-4 Kbps	Up to 21Mbps	Up to 150Mbps		Up to 10Mbps
	Bands/Frequencies	GSM/GPRS: Band 2,3,5,8	UMTS: Bands 1,2,5,6,8,10; GSM/GPRS/ EDGE: Bands 2,3,5,8	LTE: Bands 2,4,5,12,13; UMTS: Bands 2,5	LTE: Bands 1,3,7,8,20; UMTS: Bands 1,8; GSM: Bands 3,8	LTE: Bands 2,4,5,12, 25,26
GNSS	Constellation	GPS, Galileo, GLONASS	GPS, Galileo, GLONASS, BeiDou	No		
	Accuracy	1.5 meters	3 meters	No		
	Tracking Sens	-162dBm	-166dBm	No		
	Time to First Fix (TIFF)	1 sec hot / 35 sec cold	1.8 sec hot / 30 sec warm / 42 sec cold	No		
	Data Output	NMEA, RTCM	NMEA 0183	No		
ENVIRONM.	Operating Temp	- 40 to +85°C				
APPROVALS	Regulatory	CE	-36: KR Regulatory | -37: JP Regulatory	FCC Part 15 B, PTCRB	CE	FCC Part 15 B, PTCRB
	Safety	UL 60950-1/ CSA-22.2	UL 60950-1/ CSA-22.2, IEC- 60950-2	UL 60950-1	EN 60950-1	UL 60950-1
	Shock and Vibration	SAE/J1455				
	Environmental	RoHS2, REACH				
	Market	EU	36: KR | -37: JP	US	EU	US
	Carrier	Any	-	AT&T, Verizon	Any	Sprint
INTERFACES	USB	1x USB 2.0 Type A Compatible for Cellular Only				
	Dual SIM	Yes				
ANTENNAS	Cellular	SMA (Main & Diversity, where applicable)				
	GPS	SMA (Optional - not on all modules)		No		
POWER	Input	5VDC@500mA Typical				No
PHYSICAL	Enclosure	Black Polycarbonate				Gray
	Ingress	IP67				
	Mounting	4x M2.5 screws, metric				

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