



- 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.

Ordering Code: RECELL-10-20-XX									
XX	-20	-25, -26	-30, -32	-34(GPS), -35(no GPS), -36, -37	-42	-43	-44		
CELLULAR	Technology	2G Quad Band GPRS	3G Dual Band CDMA 1xRTT	3G Dual Band EV-DO Rev.A	3G Penta Band HSPA+	4G LTE Cat 3 (UMTS Fallback)	4G LTE Cat 4 (UMTS/GSM Fallback)		
	Upload	16-24Kbps	Up to 153Kbps	Up to 1.8Mbps	Up to 5.76Mbps	Up to 50Mbps			
	Download	32-4 Kbps	Up to 153Kbps	Up to 3.1Mbps	Up to 21Mbps	Up to 100Mbps	Up to 150Mbps		
	Bands/Frequencies	GSM/GPRS: Band 2,3,5,8	800/1900MHz		UMTS: Bands 1,2,5,6,8,10; GSM/GPRS/EDGE: Bands 2,3,5,8	LTE: Bands 2,4,5,17; UMTS: Bands 2,5	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	
GNSS	Constellation	GPS, Galileo, GLONASS	No	GPS, Galileo, GLONASS, BeiDou		No			
	Accuracy	1.5 meters	No	3 meters	0.4 meters	No			
	Tracking Sens	-162dBm	No	-166dBm	-161dBm	No			
	Time to First Fix (TIFF)	1 sec hot / 35 sec cold	No	1.8 sec hot / 30 sec warm / 42 sec cold			No		
	Data Output	NMEA, RTCM	No	NMEA 0183			No		
ENVIRONM.	Operating Temp	- 40 to +85°C							
APPROVALS	Regulatory	CE	FCC Part 15 B	-34: CE, FCC Part 15 B, ISED, PTCRB, MX regulatory -35: CE, FCC Part 15 B, ISED, PTCRB -36: KR Regulatory -37: JP Regulatory		CE, FCC Part 15 B, PTCRB	FCC Part 15 B, PTCRB	CE	
	Safety	EN 60950-1	UL 60950-1	-34/-35: UL 60950-1, CSA-22.2, EN 60950-1 -36/-37: IEC-60950-2		UL 60950-1		EN 60950-1	
	Shock and Vibration	SAE/J1455							
	Environmental	RoHS2, REACH							
	Market	EU	US	-34/-35: US,CA,EU -36: KR -37: JP		US		EU	
	Carrier	Any	-25: Verizon -26: Sprint		-34/-35: AT&T, T-Mobile, Bell, Rogers	AT&T	AT&T, Verizon		Any
	INTERFACES	USB	1x USB 2.0 Type A Compatible for Cellular Only						
Dual SIM		Yes	N/A		Yes				
ANTENNAS	Cellular	SMA (Main & Diversity, where applicable)							
	GPS	SMA (Optional - not on all modules)							
POWER	Input	5VDC@500mA Typical							
PHYSICAL	Enclosure	Black Polycarbonate				Gray Polycarbonate			
	Ingress	IP67							
	Mounting	4x M2.5 screws, metric							