ReliaCELL 10-20

- **Global Cellular Support for:**
  - **2G GSM**
  - **2.5G CDMA 1x-RTT**
  - **3G CDMA EV-DO Rev A**
  - **3G UMTS/HSPA**
  - **4G LTE Cat 3 and 4 with UMTS/GSM fallback**
- **Simple USB Connectivity**
- **Ready to Deploy – certified and carrier approved**
- **Ruggedized for commercial and industrial applications**
- **Optional GPS capability**

FEATURES

Ruggedized - IP67 Mountable - The enclosure design makes the ReliaCELL 10-20 ideally suited for harsh environments; whether it is indoors or outside, it provides the cellular connectivity for your application or appliance needs

Easy Cellular Technology Migration - The ReliaCELL 10-20's unique concept allows for easy integration with your appliance or IoT device, swapping ReliaCELL models as cellular technology updates are needed, and avoiding time-consuming redesigns and massive hardware replacement costs

No Cellular Certification Costs - When using the ReliaCELL as the cellular module for your M2M or IoT device, it has all of the cellular certifications completed allowing for rapid deployment of new product developments

Easy Installation - The ReliaCELL 10-20 connects to your device by way of USB 2.0. Once plugged in and screwed onto a flat surface, it is sealed and waterproof to IP67 rating

Standard Software Drivers - Ready for deployment with standard Linux and Windows software drivers to enable cellular connectivity

The ReliaCELL 10-20 is a rugged cellular adapter that is easily mountable to flat surfaces. Deployable for products sold globally, the ReliaCELL 10-20 offers a distinctive approach to providing cellular connectivity within the M2M, IoT and Internet appliance marketplace. With its rugged and small design, it simplifies product development, Time-to-Market and costs associated with implementing a cellular solution. It becomes an easy addition to existing or new applications sealing onto the surface of an enclosure, weatherproof or not, with a simple USB connection and SMA connectors for antennas.

Enabling cellular technology is one of the toughest and most time-consuming challenges enterprise customers face and the ReliaCELL 10-20 simplifies this aspect of their solution. The ReliaCELL 10-20 modularizes the cellular component of embedded product development uniquely to allow it to be added to systems without making compromises on ruggedization. Now customers save time and money while avoiding the hassle of certifying with cellular carriers since the ReliaCELL 10-20 is already certified.

The ReliaCELL 10-20 is offered in several cellular technologies, including the latest 4G LTE UE categories, providing the flexibility to adapt should your product roadmap or application requirements evolve from 2G to 3G to 4G. Simply switching from a 2G to a 3G ReliaCELL solution, for example, will allow you to maintain the key system components of your appliance without incurring significant hardware costs or the lost time and resources associated with recertification of your device.

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Variants

ReliaCELL Model		-21	-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		16-24 Kbps	Up to 153 Kbps	Up to 1.8 Mbps	Up to 5.76 Mbps	Up to 100 Mbps	Up To 150 Mbps	
DOWNLOAD		32-48 Kbps	Up to 153 Kbps	Up to 3.1 Mbps	Up to 21 Mbps	Up to 50 Mbps	Up to 50 Mbps	
BANDS/FREQUENCIES		GSM/GPRS: Bands 2,3,5,8	800/1900 MHz		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	None	None	GPS, Galileo, GLONASS, BeiDou			None	None
	Accuracy	None	None	3m		0.4m	None	None
	Tracking sensitivity	None	None	-166 dBm		-161 dBm	None	None
	Time to First Fix (TIFF)	None	None	1.8s hot / 30s warm / 42s cold			None	None
	Data output	None	None	NMEA 0183			None	None
ENVIRONMENT	Operating Temp	-40°C to +85°C						
	Regulatory and Safety	FCC, CE, IC (ISED), UL	FCC, UL	FCC, UL	-34/-35: FCC, CE, IC (ISED), UL, MX -36: KR regulatory -37: TELEC (Japan) JATE	FCC, CE, UL		
	Shock and Vibration	Shock: Mil-STD-810F / Vibration: SAE J1455						
	Environmental	RoHS2, REACH						
MARKET CERTIFICATIONS		NA EU	NA (US)	NA (US)	-34/-35: NA,EU -36: KR -37: JP	NA (US)	NA (US)	EU
CARRIER CERTIFICATIONS		PTCRB, AT&T, T-Mobile Bell, Rogers	-25: Verizon -26: Sprint	-30: Verizon -32: Sprint	-34/-35: PTCRB, AT&T, T-Mobile Bell, Rogers	PTCRB, AT&T	Verizon	

Specifications

INTERFACES	USB	1x USB 2.0 Type A Compatible for Cellular Only						
	Dual SIM	Yes	n/a	n/a	Yes	Yes	Yes	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 Protection	IP67						
	Mounting	(4x) M2.5 screws, metric						

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