

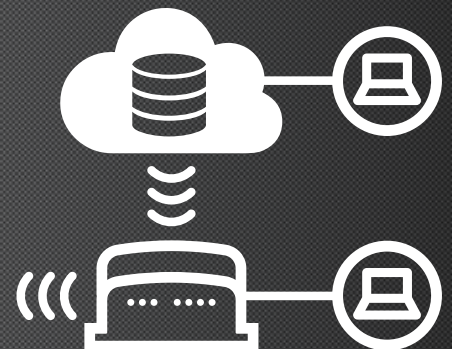


CloudGate



CONNECTING THINGS to the Cloud

- High speed LTE
- Automatic connection monitoring and error recovery
- Secure, redundant firmware and configuration images
- Unique software and hardware configuration flexibility
- Automatic provisioning of custom middleware
- Expandable memory storage



High speed LTE

CloudGate LTE delivers a faster, richer and smoother wireless internet experience than ever before, while providing investment protection for evolving business needs.

In addition CloudGate LTE is equipped with many new features: ignition sensing & timed wakeup – ideal for telematics and solar applications, expanded RAM, Flash and an SD memory slot – great for running more sophisticated applications on the CloudGate.

Reliable and secure

CloudGate automatically resolves common problems associated with wireless M2M connectivity. Built in software and hardware watchdogs continuously monitor each component of the product and the product's connectivity to home servers. In the event an issue is detected, the product proactively takes steps to re-establish connectivity. All software and configuration images are protected with digital signatures and have dual rollback images that allow the product to revert to previous working settings if an issue is detected. All management functions are protected by certificate and/or password based security mechanisms and all management actions take place over hardware assisted encrypted links.

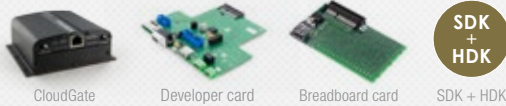
Flexible and cost effective to integrate and deploy

CloudGate provides unique flexibility that allows customers and system integrators to tailor the product to their solution or even site specific requirements. CloudGate incorporates two hardware expansion slots that allow the CloudGate to be enhanced with additional radio and/or wired interfaces. The expansion cards are simple and quick to install, allowing the field upgrade of the device when new functionality is required. All the design details of the expansion card are available to partners allowing you to add value with your own hardware products. CloudGate allows simple integration and provisioning of customer or third party middleware and applications. The automated cloud provisioning system means that each device can be set with its own custom configuration and image that is automatically loaded from the cloud when it initially connects to the internet.

Also available



WLAN expansion card Low cost serial card Industrial serial card Ethernet switch Telematics card



CloudGate Developer card Breadboard card SDK + HDK

Features	Sub Feature	Description
WWAN Modem LTE	Supported frequency bands	• 700/800/850/900/1800/1900/2100/2600/AWS (B 1-5, 7, 8, 13, 17, 18, 19, 20)
	Max. connectivity speeds	• 100Mbps down - 50Mbps up (Cat 3) Theoretical LTE data rates
WWAN Modem 3G/2G	Supported frequency bands	• UMTS/HSDPA/HSUPA/HSPA+: 850/900/1900/2100 MHz and AWS band (1700/2100 MHz) (B 1, 2, 4, 5, 8) • GSM/GPRS/EDGE: 850/900/1800/1900 MHz
	Max. Connectivity speeds	• DC-HSPA+: 42 Mbps (Cat 24) down 5.76 (Cat 6) up
	Rx Diversity	• Simultaneous Equalization and Rx Diversity on all bands
WWAN Antenna	Antenna connector	• 1 x SMA: WWAN Main • 1 x SMA: WWAN Div/GPS
GPS		• High sensitivity A-GPS /A-GLONASS receiver (SUPL 1.0 & SUPL 2.0)
Ethernet (IEEE 802.3)		• 10/100Mb/s RJ45 Connector
Visual feedback		• Seven 3 color LEDs showing system status and signal strength
SIM	USIM/SIM connection	• Class B and Class C
Expansion Slot 1 & 2		• Expansion board for IO functions such as serial, USB, GPIO, WLAN, Accelerometer, Wireless Sensor Networks
microSD card reader		• For additional storage (FAT32)
Power control		• Timed wakeup
CloudGate Universe		• Device can be configured OTA using CloudGate Universe
Power	DC Power in	• 9-33 V DC
	Connector type	• Micro-Fit 3.0™, Dual row, 4 circuits
Case	Dimension	• 115 × 105 × 45 mm
	Weight	• 304 g
	Mounting	• Bulkhead - 4x M4 holes • DIN rail - with adapter
Environmentals	Operating temperature	• -30°C to 70°C
	Storage temperature	• -40°C to +70°C
	Humidity operational	• 5% - 95%
Certification		• CE, FCC, IC, PTCRB
Standard compliance		• ROHS, Reach

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1. Define start-up configuration on CloudGate provisioning server



2. Configuration and any custom middleware are automatically installed



3. Device is ready to connect things to the Cloud!

