OPTION

CloudGate secure



Industrial grade, highly configurable cellular LTE connectivity LoRaWAN Gateway



Industry proven hardware



Ruggedized low power design



+7 years LoRaWAN expertise



External antenna connector for miles of superior LoRaWAN coverage



Ethernet & cellular LTE connectivity

Secure Element inside

OPTION

Highly configurable & flexible to integrate and deploy

Benefits

- Worldwide LTE Cat 4
- 20 LTE bands (EMEA, Americas, Asia) including TDD bands (China)
- LoRa multiregion 868 MHz & 9xx MHz
- Industrial ruggedized design
- External antenna connector
- Superior wireless coverageFully configurable software
- Highly secure with ECC608 secure element inside

World Class Security

The integrated ECC608 Secure Element provides stateof-the-art communications security. Housed in a tamper-resistant hardware security module, the Secure Element offers enhanced protection for sensitive cryptographic operations and key management. Securely storing and managing encryption keys, certificates, and authentication credentials, the ECC608 Secure Element ensures that communication between the Gateway and the Cloud remains highly secure, blocking potential threats such as unauthorized access, data breaches, and malicious tampering. This added security layer instills trust and confidence in data transmission, making the CloudGate Secure a reliable choice for all your industrial IoT applications.

Seamless Integration with Major Cloud Platforms

Unlocking great value with CloudGate Secure is easy. It seamlessly integrates with industry-leading cloud platforms such as AWS, Azure, Google, and many more, enhancing its value proposition. Leveraging this integration, users can effortlessly link their CloudGate Secure devices to their preferred cloud ecosystem, streamlining data transmission, storage, and analysis. This can be accomplished by using the LuvitRED™ "drag-anddrop" visual data-flow editor to transform the CloudGate Secure into a fully standalone LoRaWAN Network Server, a Packet Forwarder or users can use any other Packet Forwarder like BasicsStation, Semtech's UDP Packet Forwarder, or any other.

Additionally, with the integration of CloudGate Universe, an advanced device provisioning platform, users can efficiently manage and monitor their IoT deployments, optimizing performance and ensuring a cohesive and robust IoT ecosystem.

LORAWAN FUNCTIONALITY		
Feature	Description	
Radio protocol	LoRaWAN versions 1.0.x, 1.1	
Baseband processor	Semtech SX 1302 second-generation LoRa Core™ Digital Baseband Chip	
Transceiver	 Dual SX1250 Tx/Rx front-end, providing a channel range up to 2MHz and up to -141 dBm sensitivity, output power up to +27dBm 	
Number of Tx/Rx channels	125 kHz LoRa reception with 8 x 8 channels LoRa® packet detectors, 8 x SF5-SF12 LoRa® demodulators and 8 x SF5-SF10 LoRa® demodulators	
Regional variants	• For use in 868MHz or 902-928MHz mode.	
LoRaWAN Channel Plans	• EU868, US915	
Security	128-bit AES encryption (send/receive)	
Antenna connector	• SMA RP (female)	

Technical Specifications		
WWAN Modem	Supported frequency bands	 LTE FDD: B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B26, B28 TDD: 38/39/40/41
LTE Max.	Max. connectivity speeds	LTE DL 150 Mbps, UL50 Mbps
WWAN Antenna	External antenna connectors	 1 × SMA: WWAN Main 1 × SMA: WWAN Mimo/Div/GPS
SIM	USIM/SIM connection – Class B and Class C	Micro-SIM (3FF)
СРИ		i.MX280 (ARM926EJ-S @ 450 MHz) Memory available for customer apps 512 MB Flash (20 MB for data, 30 MB for application, 372 MB extra data partition)
Ethernet (IEEE 802.3)	10/100Mb/s RJ45 Connector	2 (LAN/WAN or LAN/LAN)
Realtime clock	Up to 7 days	
Power input	9-33V DC	DC input voltage: 9-33 V DC Connector: Micro-Fit 3.0TM, Dual row, 4-position; DC, GND sensing input
Power consumption	Max. 4W	
Aluminium Case	Dimensions	102 × 97 × 26 mm 4 × 3.8 × 1 in
	Weight	261 g / 9.21 oz
	Mounting	Bulkhead, 6xM4 holes, DINrail with adapter
	System status LED	\checkmark
Environ- mentals	Operating temperature	-30°C to +70°C / -22°F to to 158°F
	Storage temperature	-40°C to +85°C / -40°F to to 185°F
	Humidity	5% - 95%
Certifications		CE, FCC, PTCRB, ISED, AT&T, VZW, US Cellular, Telus
Std. compliance	ROHS, Reach, WEEE	✓
CloudGate Universe	Device can be configured OTA using CloudGate Universe	\checkmark
Secure Element	Microship ATECC608 module	\checkmark



CloudGate LTE WW Secure	CG0124-12228