

OPTION

CloudGate micro

LTE CAT4

AVAILABLE WITH OPTIONAL WiFi, LoRaWAN or BATTERY



NEW

Cost-efficient & effective world-wide LTE connectivity

- Worldwide LTE Cat 4 Programmable Multicarrier Gateway with 3G fallback
- Industrial and building automation protocol converter
- Secure Remote Access
- Connectivity back-up
- Optional WiFi or LoRaWAN or Battery backup

OPTION

Smart bit pipe

It serves as a smart bit pipe to the internet and easily connects any device to the Cloud via its Ethernet ports.

Connectivity back-up

It ensures connectivity back-up. Connect its WAN port to an ADSL or cable modem and its LAN port to the router. When the WAN port loses connection, its LTE modem will take over so internet access is always secured.

Secure remote access

CloudGate micro provides remote access over a secure VPN tunnel to the Ethernet device(s) connected to its LAN Ethernet ports.

CloudGate 4.0 next generation

CloudGate 4.0 IoT gateways were designed with CloudGate's signature features; including ruggedized design housing, industrial grade temperature ranges, timed wake-up and ignition sensing, sim connection, passive and active GPS antenna support and all are LuvitRED enabled.

NEW! CloudGate 4.0 next generation IoT gateways now feature world-wide connectivity, optional Li-ion battery, and micro-SD holder

CloudGate micro ex-factory options

CloudGate micro has a board-to-board connector on its main board that can be used to mount one of these optional expansion cards:

- Battery plug-on card
- LoRaWAN plug-on card
- WLAN plug-on card

These plug-on cards are installed during production*.

Feature	Sub Feature	Description
WWAN Modem LTE	Supported frequency bands	• LTE FDD: B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B26, B28 • TDD: 38/39/40/41
	Max. Connectivity speeds	• LTE DL 150 Mbps, UL50 Mbps
WWAN Modem 3G/2G	Supported frequency bands	• UMTS/HSDPA/HSUPA/HSPA+: 800-850/900/AWS (1700/2100)/1800/1900/2100 MHz (B1, B2, B4, B5, B6, B8, B19)
	Max. Connectivity speeds	• DC-HSPA+ DL 42 Mbps, UL 5.76 Mbps
	RX Diversity	Simultaneous Equalization and Rx Diversity on all bands
WWAN antenna	Antenna connector	• 1 x SMA: WWAN Main • 1 x SMA: WWAN Mimo/Div/GPS
SIM	Type	• USIM/SIM, class B and class C
	Dimension	• microSIM (3FF)
	Location	• Behind back cover plate
CPU		• i.MX280 (ARM926EJ-S @ 450 MHz) • Memory available for customer apps • 256 MB Flash (20 MB for data, 30 MB for application, 0 MB extra data partition)
GPS		• Standalone GPS, Assisted GPS, GPS OneXTRATM • Wideband GPS processing (20MHz) for improved measurement accuracy • Passive/active GPS antenna support
Ethernet interface	Speed	• 10/100Mbps (IEEE 802.3)
	Connector	• 2x RJ45, SW selectable as LAN or WAN
LED	3 multi-color	• System • WWAN state • WWAN signal
MicroSD card holder	Available	• On main PCB
	Location	• Behind back cover plate
WLAN(*)	Optional	• 802.15.4 b/g/n. 2.4GHz or 5GHz. Client or access point mode • Max 32 clients can be connected
	Connector	• 1x RP-SMA (back-side)
LoRaWAN(*)	Optional	• software-configurable as 8xxMHz or 9xxMHz
	Connector	• 1x RP-SMA (back-side)
Battery (*)	Optional	• Li-ion battery for last-gasp function (up to 1h) • Capacity 980mAh
Power control	Available	• Timed wakeup, Ignition sensing (with extra 3rd pin on DC power connector)
Programming	Available	• LuvitRED (graphical drag & drop) or SDK (C code)
Aluminum case	Dimension	• 102 x 97 x 26 mm • 4 x 3.8 x 1 in
	Weight	• 220 g/7.7 oz (excl. optional cards)
	Front/back plate mounting	• 5x Torx T10 front, 5x Torx T10 back
	CloudGate mounting	• Bulkhead: 2x4mm front, 2x4mm back • DIN rail: with optional adapter
Environmental	Operating temperature	• -30°C to 70°C (-22°F to 158°F)
	Storage temperature	• -40°C to 85°C (-40°F to 185°F)
Certification		• CE, FCC, PTCRB, ISED, AT&T, Verizon, US Cellular, Telus
Compliance		• RoHS, REACH, WEEE
Accessories		• LTE antennas • AC power supply or DC power cable • DIN rail mount • Battery (not for versions with WLAN card or LoRaWAN card)

(*) Either the GPS or WLAN or Battery can be mounted in production ex-factory as optional card on the main card

(**) Order numbers differ per model

Product	PN
CloudGate micro	CM0125-12164
CloudGate micro with battery (LoRaWAN & WLAN not possible)	CM0125-12196
CloudGate micro with LoRaWAN (battery back-up & WLAN not possible)	CM0125-12199
CloudGate micro with WLAN (battery back-up & LoRaWAN not possible)	CM0125-12166

