

OPTION

CloudGate He

LTE HELIUM
HOTSPOT



Industrial grade, highly customizable cellular LTE connectivity



Industry proven hardware



+6 years LoRaWAN expertise



External antenna connector
for miles of superior wireless
coverage to maximize \$HNT
earnings



Ruggedized low power design



Ethernet & 4G connectivity
Be the best in your hex

OPTION

Highly customizable & flexible to integrate and deploy

Benefits

- Worldwide LTE Cat 4 Programmable
- 20 LTE bands (EMEA, Americas, Asia) including TDD bands (China)
- LoRa multiregion 868 MHz & 9xx MHz
- Ruggedized design
- External antenna connector
- Superior wireless coverage

Helium

Helium, "The People's Network", is the fastest growing worldwide cellular network, ever. With already over 500.000 hotspots deployed globally, whilst continue to grow with 1000's of additional hotspots daily, it is just a matter of months before it will become the world's first truly global coverage IoT network. CloudGate Helium offers best in class wireless coverage with its industry proven LoRaWAN expertise.



By deploying a CloudGate Helium in your home, office, farm or basically any type of elevated area, you can provide your area with miles of low-power network coverage for billions of devices and earn a new cryptocurrency, HNT. Be the best in your hex and start earning today!



LORAWAN FUNCTIONALITY	
Feature	Description
Radio protocol	• LoRaWAN
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
LoRa Bandwidth	• 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.
Frequency bands	• EU868, US915
Security	• 128-bit AES encryption (send/receive)
Antenna connector	• SMA RP (female)

Technical Specifications		
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 Antenna	Antenna connector	• 1 x SMA: WWAN Main • 1 x SMA: WWAN MIMO/Div/GPS
SIM	USIM/SIM connection – Class B and Class C	Micro-SIM (3FF)
CPU		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 x 97 x 26 mm 4 x 3.8 x 1 in
	Weight	261 g / 9.21 oz
	Mounting, Bulkhead, 6xM4 holes, DINrail with adapter	✓
	System status LED	✓
Environ-mentals	Operating temperature	-30°C to +70°C / -22°F to 158°F
	Storage temperature	-40°C to +85°C / -40°F to 185°F
	Humidity	5% - 95%
Certifications		CE, FCC, PTCRB, ISCED, AT&T, VZW, US Cellular, DeWi
Std. compliance	ROHS, Reach, WEEE	✓
CloudGate Universe	Device can be configured OTA using CloudGate Universe	✓

Product	PN
CloudGate LTE WW He	CG0124-12228