

# OPTION

## CloudGate

Industrial grade, highly customizable cellular connectivity

## CloudGate mini

Industrial grade cellular connectivity with advanced IO

## CloudGate micro

Industrial grade, cost-effective cellular connectivity

		CloudGate LTE WW REV4	CloudGate mini	CloudGate micro
WWAN Modem	Supported frequency bands	<ul style="list-style-type: none"> <li>LTE FDD: B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B26, B28</li> <li>TDD: 38/39/40/41</li> </ul>	<ul style="list-style-type: none"> <li>LTE FDD: B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B26, B28</li> <li>TDD: 38/39/40/41</li> </ul>	<ul style="list-style-type: none"> <li>LTE FDD: B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B26, B28</li> <li>TDD: 38/39/40/41</li> </ul>
	LTE	Max. connectivity speeds	<ul style="list-style-type: none"> <li>LTE DL 150 Mbps, UL50 Mbps</li> </ul>	<ul style="list-style-type: none"> <li>LTE DL 150 Mbps, UL50 Mbps</li> </ul>
WWAN Modem	Supported frequency bands	<ul style="list-style-type: none"> <li>GSM/GPRS/EDGE: 850/900/1800/1900 MHz (B2, B3, B5, B8)</li> <li>UMTS/HSDPA/HSUPA/HSPA+: 800-850/900/AWS (1700/2100)/1800/1900/2100 MHz (B1, B2, B4, B5, B6, B8, B19)</li> </ul>	<ul style="list-style-type: none"> <li>UMTS/HSDPA/HSUPA/HSPA+: 800-850/900/AWS (1700/2100)/1800/1900/2100 MHz (B1, B2, B4, B5, B6, B8, B19)</li> </ul>	<ul style="list-style-type: none"> <li>UMTS/HSDPA/HSUPA/HSPA+: 800-850/900/AWS (1700/2100)/1800/1900/2100 MHz (B1, B2, B4, B5, B6, B8, B19)</li> </ul>
		Max. connectivity speeds	<ul style="list-style-type: none"> <li>DC-HSPA+ DL 42 Mbps, UL 5.76 Mbps</li> </ul>	<ul style="list-style-type: none"> <li>DC-HSPA+ DL 42 Mbps, UL 5.76 Mbps</li> </ul>
	3G/2G	Rx Diversity	Simultaneous Equalization and Rx Diversity on all bands	Simultaneous Equalization and Rx Diversity on all bands
WWAN Antenna	Antenna connector	<ul style="list-style-type: none"> <li>1 x SMA: WWAN Main</li> <li>1 x SMA: WWAN Div/GPS</li> </ul>	<ul style="list-style-type: none"> <li>1 x SMA: WWAN Main</li> <li>1 x SMA: WWAN Mimo/Div/GPS</li> </ul>	<ul style="list-style-type: none"> <li>1 x SMA: WWAN Main</li> <li>1 x SMA: WWAN Mimo/Div/GPS</li> </ul>
GPS		<ul style="list-style-type: none"> <li>Standalone GPS, Assisted GPS, GPS OneXTRA™</li> <li>Wideband GPS processing (20MHz) for improved measurement accuracy</li> <li>Passive/active GPS antenna support</li> </ul>	<ul style="list-style-type: none"> <li>Standalone GPS, Assisted GPS, GPS OneXTRA™</li> <li>Wideband GPS processing (20MHz) for improved measurement accuracy</li> <li>Passive/active GPS antenna support</li> </ul>	<ul style="list-style-type: none"> <li>Standalone GPS, Assisted GPS, GPS OneXTRA™</li> <li>Wideband GPS processing (20MHz) for improved measurement accuracy</li> <li>Passive/active GPS antenna support</li> </ul>
SIM	USIM/SIM connection – Class B and Class C	✓	✓	✓
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)	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)	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)
Ethernet (IEEE 802.3)	10/100Mb/s RJ45 Connector	✓	✓	✓
microSD card holder		on main PCB	on main PCB	on main PCB
Power control	Timed Wakeup	✓	✓	✓
	Ignition Sensing	✓	✓	✓
Battery	Optional	Li-Ion battery: optional last gasp function (up to 1h with limited functionality) Battery backup RTC (7 days)	Li-Ion battery: optional last gasp function (up to 1h with limited functionality)	Li-Ion battery: optional last gasp function (up to 1h with limited functionality)
Power input		<ul style="list-style-type: none"> <li>DC input voltage: 9-33 V DC</li> <li>Connector: Micro-Fit 3.0TM, Dual row, 4-position</li> </ul>	<ul style="list-style-type: none"> <li>DC input voltage: 9-33 V DC</li> <li>Connector: Micro-Fit 3.0TM, Dual row, 4-position</li> </ul>	<ul style="list-style-type: none"> <li>DC input voltage: 9-33 V DC</li> <li>Connector: Micro-Fit 3.0TM, Dual row, 4-position</li> </ul>
USB		✓ with optional expansion card	✗	✗
Rear Expansion card		✓ with optional expansion card	✓ with optional WAN or LoRa expansion card	✗
Front Expansion card		✓ with optional expansion card	✗ fixed functionality: I2C, 3 x GPIO, RS485 or RS232 and CAN bus port (up to 1 Mbps)	✗
Aluminium Case	Dimension (115 x 105 x 45mm)	115 x 106 x 45 mm 4.52 x 4.17 x 1.77 in	115 x 106 x 45 mm 4.52 x 4.17 x 1.77 in	115 x 106 x 45 mm 4.52 x 4.17 x 1.77 in
	Weight	285 g / 10.05 oz	285 g / 10.05 oz	285 g / 10.05 oz
	Mounting, Bulkhead, 4x M4 holes, DINrail with adapter	✓	✓	✓
	System status LED	✓	✓	✓
Environ-mentals	Operating temperature	-30°C to +70°C / -22°F to to 158°F	-30°C to +70°C/ -22°F to to 158°F	-30°C to +70°C / -22°F to to 158°F
	Storage temperature	-40°C to +85°C / -40°F to to 185°F	-40°C to +85°C / -40°F to to 185°F	-40°C to +85°C / -40°F to to 185°F
	Mounting, Bulkhead, 4x M4 holes, DIN rail with adapter	5% - 95%	5% - 95%	5% - 95%
Certifications		CE, FCC, PTCRB, ISED, AT&T, VZW, US Cellular	CE, FCC, PTCRB, ISED, AT&T, VZW, US Cellular	CE, FCC, PTCRB, ISED, AT&T, VZW, US Cellular
Std. compliance	ROHS, Reach, WEEE	✓	✓	✓
CloudGate Universe	Device can be configured OTA using CloudGate Universe	✓	✓	✓
For developers	CloudGate development kit: developer board, breadboard, SDK, HDK	✓	✓	✓
In the box	Accessories are available (i.e. Power cable, antenna's etc...)	CloudGate Gateway	CloudGate Gateway	CloudGate Gateway
Product Code		CG0124	CM1123	CM0125