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Product Specifications

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Halo OEM w/ 4 SIMs 4G LTE Specifications

Connectivity		Physical & Environmental		SW & MGMT.	
Cellular	4x Nano SIM slots	Size	3.39" x 2.72" x 0.55" 86mm x 69mm x 14mm	Software	Linux based
USB	1x USB 2.0	Weight	93g/ 0.2lbs	Device Management	Local WEB GUI
Ethernet	2x 1GbE	Input Voltage Input Amp	9-30V DC 1.11-0.33A	Environment Management	Cloud based monitoring
Wi-Fi	Dual Band Wi-Fi (2.4 / 5GHz) 802.11 a/b/g/n/ac WAN/AP modes	Power consumption	6.5W (avg) 12W (max)	Encryption	Up to AES-256-CBC
Serial	2x RS232/422/485 1x CAN BUS ⁽¹⁾ 1x UART	Ambient temperature	Housing dependent	Data Security	Package splitting mechanism
Bluetooth	BT 4.2 (BLE)	Antennas (u.fl)	4x-8x Cellular antennas 1x GNSS antenna 1x Wi-Fi/BT antenna	Positioning Systems Supported	GPS GLONASS Galileo BeiDou

⁽¹⁾ For future use (currently not applicable)



Boxed Halo 4G LTE w/ 4 SIMs Specifications

Connectivity		Physical & Environmental		SW & MGMT.	
Cellular	4x Nano SIM slots	Size	4.8" x 4.6" x 1.2" 122mm x 117mm x 31mm	Software	Linux based
USB	1x USB 2.0	Weight	534g/ 1.18lbs	Device Management	Local WEB GUI
Ethernet	2x 1GbE	Input Voltage Input Amp	9-30V DC 1.11-0.33A	Environment Management	Cloud based monitoring
Wi-Fi	Dual Band Wi-Fi (2.4 / 5GHz) 802.11 a/b/g/n/ac WAN/AP modes	Power consumption	6.5W (avg) 10W (max)	Encryption	Up to AES-256-CBC
Serial	1x RS232/422/485 1x CAN BUS ⁽¹⁾ 1x UART ⁽²⁾	Ambient temperature	Operating: -10°C to 75°C	Data Security	Package splitting mechanism
Bluetooth	BT 4.2 (BLE)	Antennas (SMA)	4x Cellular antennas 1x GNSS antenna 1x Wi-Fi/BT antenna	Positioning Systems Supported	GPS GLONASS Galileo BeiDou

What's in the box

x1 Stand alone Halo device
x4 Cellular antenna

x1 GNSS antenna
x1 Power adapter

x1 Power supply
x1 Wi-Fi/ BT antenna

⁽¹⁾ For future use (currently not applicable) ⁽²⁾ Either UART or CANBUS



Halo Card w/1 5G & 3 LTE SIMs - Specification

Connectivity		Physical & Environmental		SW & MGMT.	
Cellular	3x Nano SIM slots	Size	3.42" x 2.72" x 0.75" 87mm x 69mm x 19mm	Software	Linux based
USB	1x USB 2.0	Weight	103g/ 0.21lbs	Device Management	Local WEB GUI
Ethernet	2x 1GbE	Input Voltage Input Amp	9-30V DC 1.33-0.4A DC	Environment Management	Cloud based monitoring
Wi-Fi	Dual Band Wi-Fi (2.4 / 5GHz) 802.11 a/b/g/n/ac WAN/AP modes	Power consumption	N.A. W (avg) N.A. W (max)	Encryption	Up to AES-256-CBC
Serial	2x RS232/422/485 1x CAN BUS ⁽¹⁾ 1x UART	Ambient temperature	Housing dependent	Data Security	Packet splitting mechanism
Bluetooth	BT 4.2 (BLE)	Antennas (u.fl)	6x Cellular antennas 1x GNSS antenna 1x Wi-Fi/BT antenna	Positioning Systems Supported	GPS GLONASS Galileo BeiDou

⁽¹⁾ For future use (currently not applicable)



Boxed Halo w/1 5G & 3 LTE SIMs Specification

Connectivity		Physical & Environmental		SW & MGMT.	
Cellular	3x Nano SIM slots	Size	4.8" x 4.6" x 1.2" 122mm x 117mm x 31mm	Software	Linux based
USB	1x USB 2.0	Weight	550/ 1.21lbs	Device Management	Local WEB GUI
Ethernet	2x 1GbE	Input Voltage Input Amp	9-30V DC 1.11-0.33A	Environment Management	Cloud based monitoring
Wi-Fi	Dual Band Wi-Fi (2.4 / 5GHz) 802.11 a/b/g/n/ac WAN/AP modes	Power consumption	N.A. W (avg) N.A. W (max)	Encryption	Up to AES-256-CBC
Serial	1x RS232/422/485 1x CAN BUS ⁽¹⁾ 1x UART ⁽²⁾	Ambient temperature	Operating: -40°C to 75°C	Data Security	Packet splitting mechanism
Bluetooth	BT 4.2 (BLE)	Antennas (SMA)	6x Cellular antennas 1x GNSS antenna 1x Wi-Fi/BT antenna	Positioning Systems Supported	GPS GLONASS Galileo BeiDou

What's in the box

x1 Standalone Halo device

x1 GNSS antenna

x1 Power supply

x6 Cellular antenna

x1 Power adapter

x1 Wi-Fi/ BT antenna

x1 LAN cable

⁽¹⁾ For future use (currently not applicable) ⁽²⁾ Either UART or CANBUS



Halo Card w/2 5G and 2 LTE SIMs - Specification

Connectivity		Physical & Environmental		SW & MGMT.	
Cellular	4x Nano SIM slots	Size	3.42" x 2.72" x 0.75" 87mm x 69mm x 19mm	Software	Linux based
USB	1x USB 2.0	Weight	116g/ 0.21lbs	Device Management	Local WEB GUI
Ethernet	2x 1GbE	Input Voltage Input Amp	9-30V DC 1.33-0.4A DC	Environment Management	Cloud based monitoring
Wi-Fi	Dual Band Wi-Fi (2.4 / 5GHz) 802.11 a/b/g/n/ac WAN/AP modes	Power consumption	N.A. W (avg) N.A. W (max)	Encryption	Up to AES-256-CBC
Serial	2x RS232/422/485 1x CAN BUS ⁽¹⁾ 1x UART	Ambient temperature	Housing dependent	Data Security	Packet splitting mechanism
Bluetooth	BT 4.2 (BLE)	Antennas (u.fl)	10x Cellular antennas 1x GNSS antenna 1x Wi-Fi/BT antenna	Positioning Systems Supported	GPS GLONASS Galileo BeiDou

⁽¹⁾ For future use (currently not applicable)



Boxed Halo 2x5G and 2x4G LTE Specifications

Connectivity		Physical & Environmental		SW & MGMT.	
Cellular	4x Nano SIM slots	Size	4.8" x 4.6" x 1.2" 122mm x 117mm x 31mm	Software	Linux based
USB	1x USB 2.0	Weight	560g/ 1.23lbs	Device Management	Local WEB GUI
Ethernet	2x 1GbE	Input Voltage Input Amp	9-30V DC 1.11-0.33A	Environment Management	Cloud based monitoring
Wi-Fi	Dual Band Wi-Fi (2.4 / 5GHz) 802.11 a/b/g/n/ac WAN/AP modes	Power consumption	6.5W (avg) 10W (max)	Encryption	Up to AES-256-CBC
Serial	1x RS232/422/485 1x CAN BUS ⁽¹⁾ 1x UART ⁽²⁾	Ambient temperature	Operating: -10°C to 75°C	Data Security	Package splitting mechanism
Bluetooth	BT 4.2 (BLE)	Antennas (SMA)	10x Cellular antennas 1x GNSS antenna 1x Wi-Fi/BT antenna	Positioning Systems Supported	GPS GLONASS Galileo BeiDou

What's in the box

x1 Stand alone Halo device
x10 Cellular antenna

x1 GNSS antenna
x1 Power adapter

x1 Power supply
x1 Wi-Fi/ BT antenna

⁽¹⁾ For future use (currently not applicable) ⁽²⁾ Either UART or CANBUS

Per Telit modems

<i>Modem</i>	<i>Market</i>	<i>5G bands</i>	<i>4G (LTE) bands</i>
C4-NF	N. America (Public safety, AT&T, FirstNet, T-Mobile, Verizon + Canada)	---	B2, B4, B5, B12, B13, B14, B66, B71
C4-CN	China, India	---	B1, B3, B5, B8, TDD: B38,B39, B40,B41, TD-SCDMA: B34, B39
C4-LA	LATAM	---	B1, B2, B3, B4, B5, B7, B28
C4-AP	APAC (Telstra/NTT/KDDI/SB)	---	B1, B3, B5, B8, B9, B18, B19, B26, B28
C4-WWD	EMEA and N. America (AT&T, VZ), APAC (not in Japan), LATAM	---	B1, B2, B3, B4, B5, B7, B8, B8_US, B9, B12, B13, B14, B18, B19, B20, B25, B26, B28
FN990	North America, EMEA, APAC	n1, n2, n3, n5, n7, n8, n20, n25, n28, n30, n38, n40, n41, n48, n66, n71, n75, n77, n78, n79	B1, B2(B25), B3, B4(B66), B26(B5, B18, B19), B7, B8, B12(B17), B13, B14, B20, B28, B29(DL), B30, B32(DL), B34, B38, B39, B40, B41, B42, B43, B46(LAA), B48(CBRS), B66, B71

/ Per module

	Halo NF	Halo EU	Halo CN	Halo LA	Halo AP
<i>MIL-STD 810G:08*</i>	V	V	V	V	V
<i>CE</i>		V			
<i>FCC</i>	V				
<i>PTCRB, Verizon, Verizon ALO, AT&T, T-Mobile, USCellular</i>	V				
<i>EU-GDPR, US-CCPA, HIPAA</i>	V	V	V	V	V

- Includes: Low temperature, High temperature, Humidity, Random vibration

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