

TRITOM Azure Sphere Guardian S100

The TRITOM Azure Sphere Guardian S100 is built with Microsoft Azure Sphere-certified chip includes built-in Microsoft security technology to provide connectivity and a dependable hardware-based root of trust. The TRITOM S100 provides various interface for unconnected equipment which was designed before connectivity for non-IT devices was considered feasible or were intentionally not connected because they were deemed too mission critical to be subjected to the unsafe internet world. Connecting equipment and device to the internet representing innovative business model such as preventive maintenance, just-in-time reporting and role-based access to the equipment and data. The TRITOM S100 can be deployed in the following indoor IoT applications and scenarios.



Figure 1: TRITOM Azure Sphere Guardian C100 (image may vary from actual product and specification)

- Devices Management
- Asset Management
- Property Management
- Smart City & Smart Factory

Features

- Microsoft Azure Pre-certified IoT Plug and Play
- One (1) Ethernet 10BASE-T port with two status LEDs
- One (1) micro USB 2.0 port (client)
- One (1) RS-485 port + power in supply pin (D+/D-GND/V+)
- One (1) 4FF SIM slot (factory-configure)
- Two (2) SMA connectors for user-install detachable LTE antenna for extended single range
- Six (6) status LEDs



Figure 2: TRITOM Azure Sphere Guardian C100 (image may vary from actual product and specification)

Product Specifications

Feature	Description
System	<ul style="list-style-type: none"> One (1) 500MHz ARM Cortex A7, 4MB SRAM Two (2) 200MHz ARM Cortex M4F cores, 192KB TCM, 64KB SRAM (per core) On-chip QSP1 16MB Flash
LTE	<ul style="list-style-type: none"> Part number-specific. Please refer to "Ordering Information" for details One (1) 4FF SIM slot (factory-configure)
Antenna	<ul style="list-style-type: none"> Two (2) SMA connectors for user-install detachable LTE antenna
Indicators	<ul style="list-style-type: none"> LTE, SIM, ETHERNET, USB, RS-485, POWER (tri-color for LTE for signal strength)
Data Ports	<ul style="list-style-type: none"> One (1) Ethernet 10BASE-T port with two status LEDs One (1) micro USB 2.0 port (client) One (1) RS-485 port + power out supply pin (D+/D-GND/V+)
Input Voltage	<ul style="list-style-type: none"> 9~36VDC
Power Consumption	<ul style="list-style-type: none"> ~8W
Mechanical	<ul style="list-style-type: none"> Dimension (W x L x H): 3.66" x 4.69" x 1.09" (93mm x 119mm x 27.5 mm) Weight: 0.44 lbs (196 g) Operating Temperature: -22°F ~ 158°F (-30°C ~ 70°C) Operating Humidity: 10 ~ 95% (non-condensing) Storage Temperature: -40°F ~ 185°F (-40°C to 85°C) Desktop, wall-mount and DIN Rail Installation
Standard & Compliance	<ul style="list-style-type: none"> FCC, IC, PTCRB Microsoft Azure Pre-certified IoT Plug and Play

Ordering Information*

Description	Part Number
One (1) TRITOM Azure Sphere Guardian S100-C1 with T-Mobile LTE SIM and data <ul style="list-style-type: none"> Telit LE910C1-NF (LEPCIC1NF06T067200) LTE CAT-1, Band 4, 66, 2, 12, 71 (T-Mobile/AT&T) North America and other country Package also includes <ul style="list-style-type: none"> One (1) 12VDC/1A, 100~240VAC 50/60Hz wall mount style power adapter Two (2) omnidirectional LTE antennas 	TTMM-S1-010
One (1) TRITOM Azure Sphere Guardian S100 <ul style="list-style-type: none"> Telit LE910C1-NF (LEPCIC1NF06T067200) LTE CAT-4, Band Band 4, 66, 2, 12, 71 (T-Mobile/AT&T) North America and other country Package also includes <ul style="list-style-type: none"> One (1) 12VDC/1A, 100~240VAC 50/60Hz wall mount style power adapter Two (2) omnidirectional LTE antennas 	Not Released
One (1) TRITOM Azure Sphere Guardian S100 <ul style="list-style-type: none"> Quectel BG96 Module (TRITOM-BG96-mPCIe) LTE CAT-M1/NB1, Band 1 ~ 5, 8, 12, 13, 18 ~ 20, 25 ~ 28, 66, 85 North America and other country Package also includes <ul style="list-style-type: none"> One (1) 12VDC/1A, 100~240VAC 50/60Hz wall mount style power adapter Two (2) omnidirectional LTE antennas 	TTMM-S1-030
Omnidirectional LTE antenna (for TRITOM Azure Sphere Guardian S100) (Two (2) pieces)	Not Released
12VDC/1A, 100~240VAC 50/60Hz wall mount style power adapter (One (1) piece)	Not Released

* More market and carriers support upon request. Subscription plan is required with wireless carrier and is not included.

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