IOT GATEWAY HARDWARE PLATFORM

conga-loT

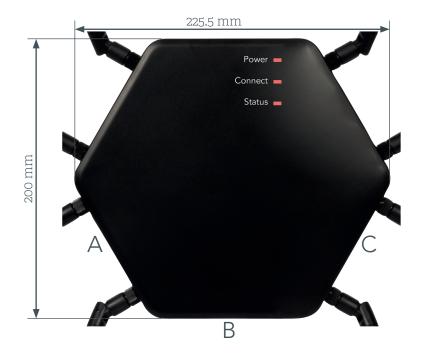


- Highly Flexible IoT Gateway
- Based on Intel® Atom™ Architecture
- Application Ready Platform
- Easily Customizable for Rapid Field Deployment
- Highly Configurable Utilizing Standard Wireless and Cellular add-on cards
- Flexible and Scalable:
 - Computing Performance
 - Wireless Connectivity
 - Software Integration

Form Factor	Hexagon, outside	Hexagon, outside dimension approx. 220 x 225,5mm (without antennas)			
CPU	conga-QA5 Qseven Module Based on Intel® Apollo Lake Processor series Intel® Atom™ x7-E3950, 2.0 GHz Quad Core, L2 cache 2MB, 12W TDP Scalable from dual core Intel® Atom™ x5-E3930 to quad core Intel® Atom™ x7-E3950				
DRAM	Dual channel 4 GByte (optional 8 GByte) DDR3L memory				
Mass Storage	eMMC 32 GByte (optional up to 128 GByte) MLC Flash				
External I/O Interfaces	2x LAN 10/100/1000 (Intel® 1211AT), 1x Power over Ethernet support Connector for external PSU - 19V DC power button 4x RP-SMA antenna connectors 4x SMA antenna connectors				
Internal I/O Interfaces	2x USB 2.0 1x M.2 card slot (for 3G/LTE cellular) 6x miniPCle (USB 2.0) optional, for wireless extension cards i.e. 3G, LTE, Narrow Band IOT, Zigbee, 2x mSATA				
Diagnostic I/O Interfaces	1x DisplayPort max. resolution 2560x1600 1x USB 2.0 1x SD card slot 1x Micro SIM (for 3G/LTE cellular)				
On-board functionality	1x EEPROM (8k) 2x temperature sensor RTC battery TPM 2.0 3x multicolor LEDs				
Cooling	Integrated in housing				
congatec Board controller	Multi Stage Watchdog non-volatile User Data Storage Manufacturing and Board Information Board Statistics BIOS Setup Data Backup I ² C bus (fast mode 400 kHz multi-master) Power Loss Control				
Embedded BIOS Features	AMI Aptio® UEFI 2.x firmware congatec Embedded BIOS features (OEM Logo OEM CMOS Defaults LCD Control Display Auto Detection Backlight Control Flash Update)				
Software Support	Windows 10 IoT Enterprise, Yocto, Linux				
Input Voltage	DC 19V or Power over Ethernet (PoE)				
Temperature	Operating : Storage :	Commercial: 0 to +40°C -20 to +60°C	Extended: -20 to +50°C		
Humidity	Operating:	10 to 90% r. H. non cond.	Storage: 5 to 95% r. H. non cond.		



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В





Standard I/O Interfaces - 2x Gb Ethernet (1x PoE)

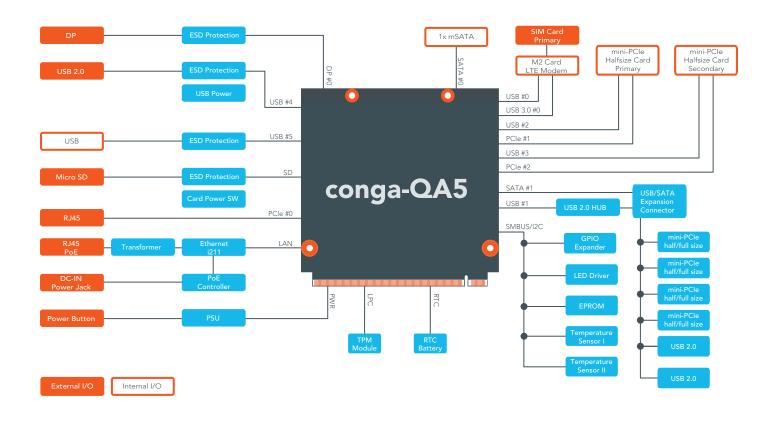
- DC Power Input





Diagnostic I/O Interfaces
- DisplayPort
- USB 2.0
- SD Card
- SIM Card

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Article	PN	Description
conga-CGW01 IoT Gateway (QA5i)	020300X	conga-CGW(- QA5i, Q7 C

56000063

ga-CGW01 IoT Gateway Assembly contains:

- QA5i, Q7 CPU module - conga-CGW01, carrier board
- conga-CGW02, extension board

Wallmount bracket

- WiFi I, LTE modem conga-CGW01 QA5i Mechanical assembly
- commercial temperature components (0-60°C)

Accessories	PN	Description
Power Supply	10000170	19V NB power supply, 3.42A, 65W, straight plug 7.4x5.1x12.5mm
LTE Antenna	10000182	LTE SMA Antenna, 5 dBi, omnidirectional with flexible joint, black
WLAN Antenna	10000183	WLAN SMA Antenna RP-SMA 802.11 ac/a/h/b/g/n, 5 dBi, omnidirectional with flexible joint, black

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Mounting Kit