

IoT GATEWAY HARDWARE PLATFORM

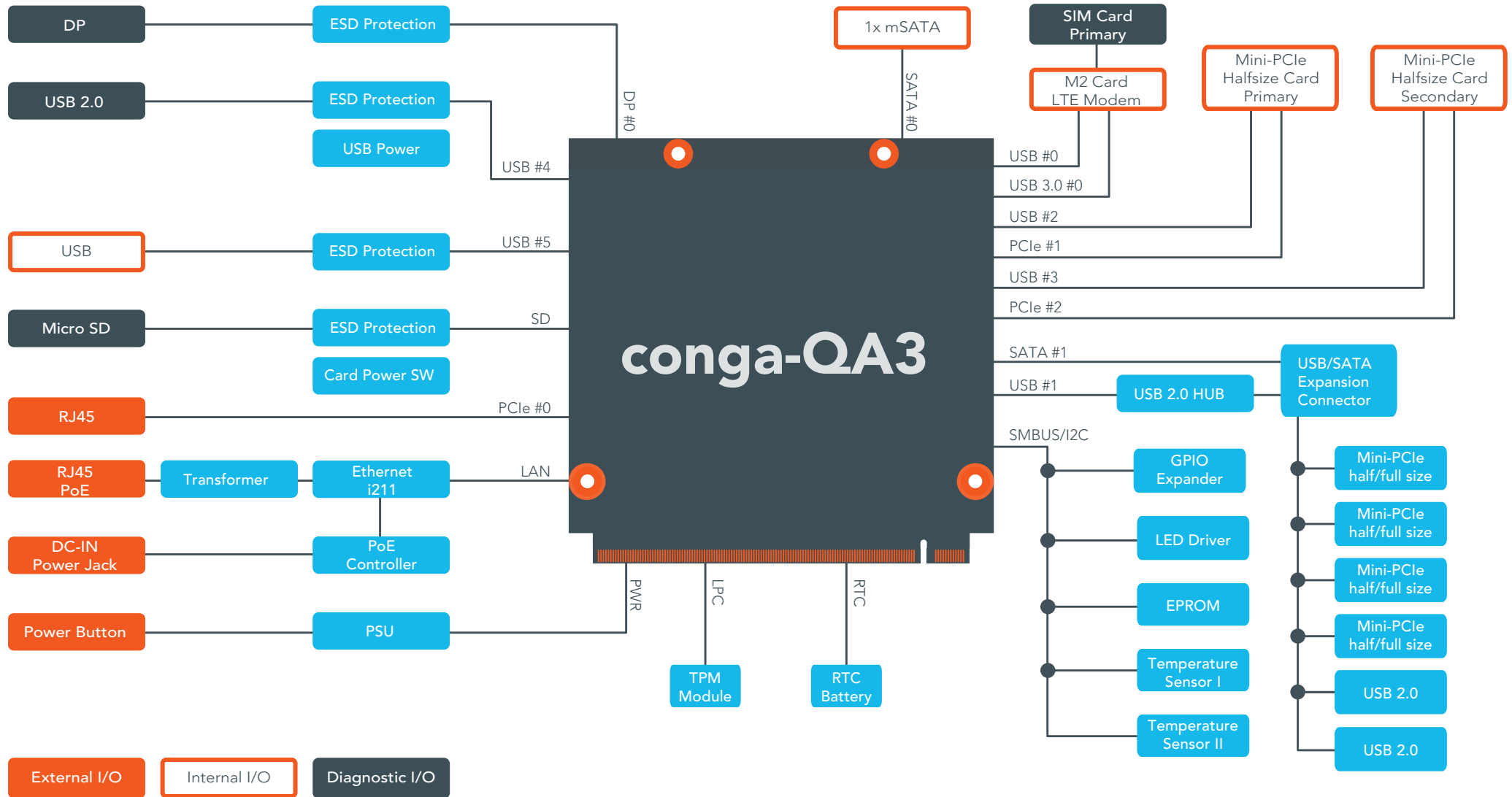
conga-IoT



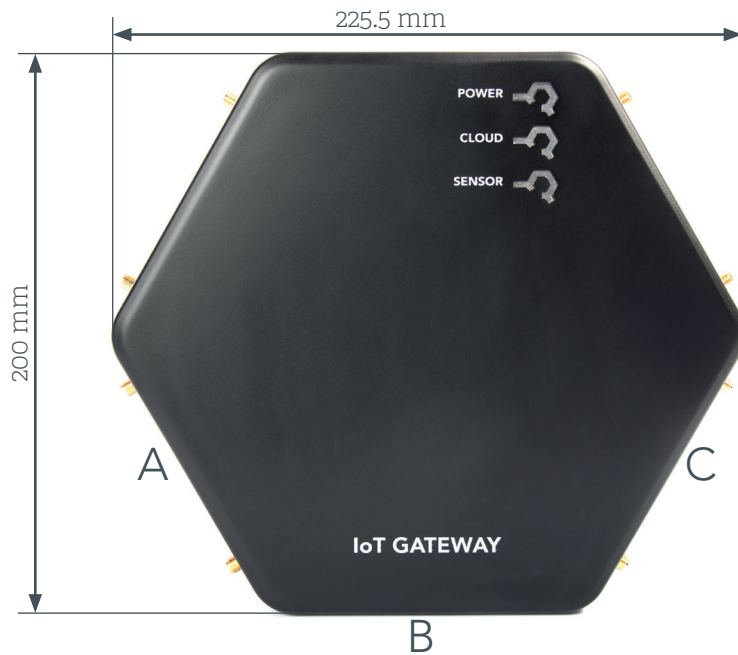
- Highly Flexible IoT Gateway
- Based on Intel® Atom™ Architecture
- Application Ready Platform
- Easily Customizable for Rapid Field Deployment
- Flexible and Scalable:
 - Computing Performance
 - Wireless Connectivity
 - Software Integration

Form Factor	Hexagon, outside dimension approx. 220 x 225,5mm (without antennas)
CPU	conga-QA3 Qseven Module Based on 3 rd Gen. Intel® Atom™ Processor Intel® Atom™ E3845 1.91 GHz Quad Core L2 cache 2MB 10W TDP
DRAM	Dual channel 4 GByte DDR3L memory
Mass Storage	eMMC 32 GByte MLC Flash
External I/O Interfaces	2x LAN 10/100 (Intel® I211AT), 1x PoE 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) for wireless extension cards 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 iPC 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)
Input Voltage	DC 19V or Power over Ethernet (PoE)
Temperature	Operating : Commercial: 0 to +40°C Extended: -20 to +50°C Storage : -40 to +85°C
Humidity	Operating: 10 to 90% r. H. non cond. Storage: 5 to 95% r. H. non cond.

conga-IoT | Block Diagram



conga-IoT | Dimensions



A



Power Button

B



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

C



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

conga-IoT | Order Information

Article	PN	Description
conga-IoT/E3845	020399	congatec IoT Gateway based on Intel® Atom™ E3845 quad core processor with 1.91GHz core frequency, 2MB L2 cache, 4GB 1600MT/s DDR3L on-board memory and 32GB eMMC on-board flash. Intel® Dual Band Wireless-AC 7260 WiFi/BT adapter 802.11 ac/a/b/g/n. Huawei ME936 LTE module supporting LTE (FDD), Penta-band DC-HSPA+/HSPA+/HSPA/WCDMA for North America and Europe, Global Navigation Satellite System (GNSS).