

IoT Gateway System E100-8Q



Integrated Board



Super A1SQN

Key Features

- Smart Factory IoT Gateway based on Intel Quark SoC
- Compact Embedded System
- Long Life Cycle Support
- Smart Building/Home Gateway
- Retail store or Warehouse Hub

1. Single Intel® Quark™ SoC X1021; CPU TDP support 2.2W
2. 1x Micro SDHC up to 32GB internal slot
3. Onboard 512MB DDR3 ECC memory
4. Expansion slots: 2x Mini-PCI-E slots, 1x ZigBee module socket
5. I/O ports: TPM 1.2 onboard Chip, 2x 10/100Mbps RJ45, 1x RS-232 via DB9, 1x RS485 via screw terminal interface, 2x USB 2.0 (device & host), 8x Analog Input 12-bit, 8x DIO 8 bit
6. Power Adapter: 12V DC input
7. Environment operating temperature 0°C to 50°C

[▶ Drivers & Utilities](#)
[▶ BIOS](#)
[▶ IPMI](#)
[▶ Manuals](#)
[▶ OS Certification Matrix](#)

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

Product SKUs

SYS-E100-8Q ■ SuperServer E100-8Q (Black)

Motherboard

Super A1SQN

Processor/Cache

CPU ■ Intel® Quark™ SoC X1021 (CPU TDP support 2.2W)
 ■ Single Socket FCBGA393

System Memory

Memory Capacity ■ 512MB of Onboard ECC DDR3 800MHz memory

Memory Voltage ■ 1.5 V

On-Board Devices

Chipset ■ Intel® Quark™ SoC (System on Chip) X1021

USB ■ Intel® Quark™ SoC X1021

Input / Output

Internal Storage ■ Micro SDHC up to 32GB slot

LAN ■ 2x 10/100Mbps RJ45 Gigabit Ethernet LAN ports

USB ■ 2x USB 2.0 ports (1 Device & 1 Host)

Serial Port / Headers ■ 1x RS-232 via DB9, 1x RS485 via screw terminal interface

Chassis

Form Factor ■ E100 Compact Box PC

Model ■ CSE-E100-015E

Dimensions

Width ■ 5.3" (135mm)

Height ■ 1.4" (36mm)

Depth ■ 4.3" (109mm)

Weight ■ Gross Weight: 3 lbs (1.4 kg)
 ■ Net Weight: 0.9 lbs (0.4 kg)

Available Colors ■ Black

Expansion Slots

PCI-E ■ 2x Mini-PCIe
 ■ 1x ZigBee module socket

Drive Bays

Internal ■ Micro SDHC up to 32GB slot

Power

12V DC input

System BIOS

BSP ■ 8MB SPI Flash EEPROM Board Support Package

Operating Environment / Compliance

RoHS ■ RoHS Compliant

Environmental Spec. ■ Operating Temperature: 0°C ~ 50°C (32°F ~ 122°F)
 ■ Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)
 ■ Operating Relative Humidity: 8% to 90% (non-condensing)
 ■ Non-operating Relative Humidity: 5% to 95% (non-condensing)