



- **Fanless Design**
- Soldered Onboard Intel® Atom™ Processor E3800 family
- Integrated Gigabit Ethernet
- Dual Channels 24-bit LVDS, DDI Port
- **Extended Operating Temp.: -20 ~ 70°C**

Processor	Soldered onboard Intel® Atom™ Processor E3800 family E3825 1.33GHz or E3845 1.91GHz
Memory	Soldered onboard 2GB DDR3L SDRAM
BIOS	Insyde BIOS
Watchdog Timer	1~255 levels reset

USB 2.0	8 x USB 2.0 ports(Port0~3 support USB2.0 only)
Expansion	3 x PCIe1, I2C
Storage	2 x Serial ATA ports with 300MB/s HDD transfer rate 4GB/8GB/16GB eMMC 4.5 (OEM Request)
Ethernet Chipset	1 x Intel® i210IT PCIe GbE controller
Audio	HD Link

Graphics Chipset	Integrated Intel® Gen7 Graphic
Graphics Interface	Analog RGB/DVI: Analog RGB (via RSV pin), with resolution up to 2048x1536
	LCD: Dual Channel 24-bit LVDS, with resolution up to 1920x1200 DDI port: 1 x DDI port

Windows 7 32-bit/64-bit
Windows 8.1 32-bit/64-bit
Linux: Ubuntu

Power Requirement	DC 5V, 5VSB
Power Consumption	0.93A@12V with E3825 (Typical, with PBQ-3000)
Operating Temp.	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	10 ~ 95% @ 70°C (non-condensing)
Dimension (L x W)	70 x 70 mm (2.76" x 2.76")

Technical drawing of a rectangular structure, likely a cross-section of a building or a large container. The drawing includes dimensions and internal components.

Dimensions:

- Overall width: 70.00
- Overall height: 67.00
- Internal width (left side): 52.00
- Internal width (middle): 36.58
- Internal width (right side): 35.94
- Internal height (top): 22.86
- Internal height (middle): 18.00
- Internal height (bottom): 3.00
- Internal height (right side): 2.50, 15.77, 39.27, 58.50, 70.00
- Internal height (bottom right): 1.20

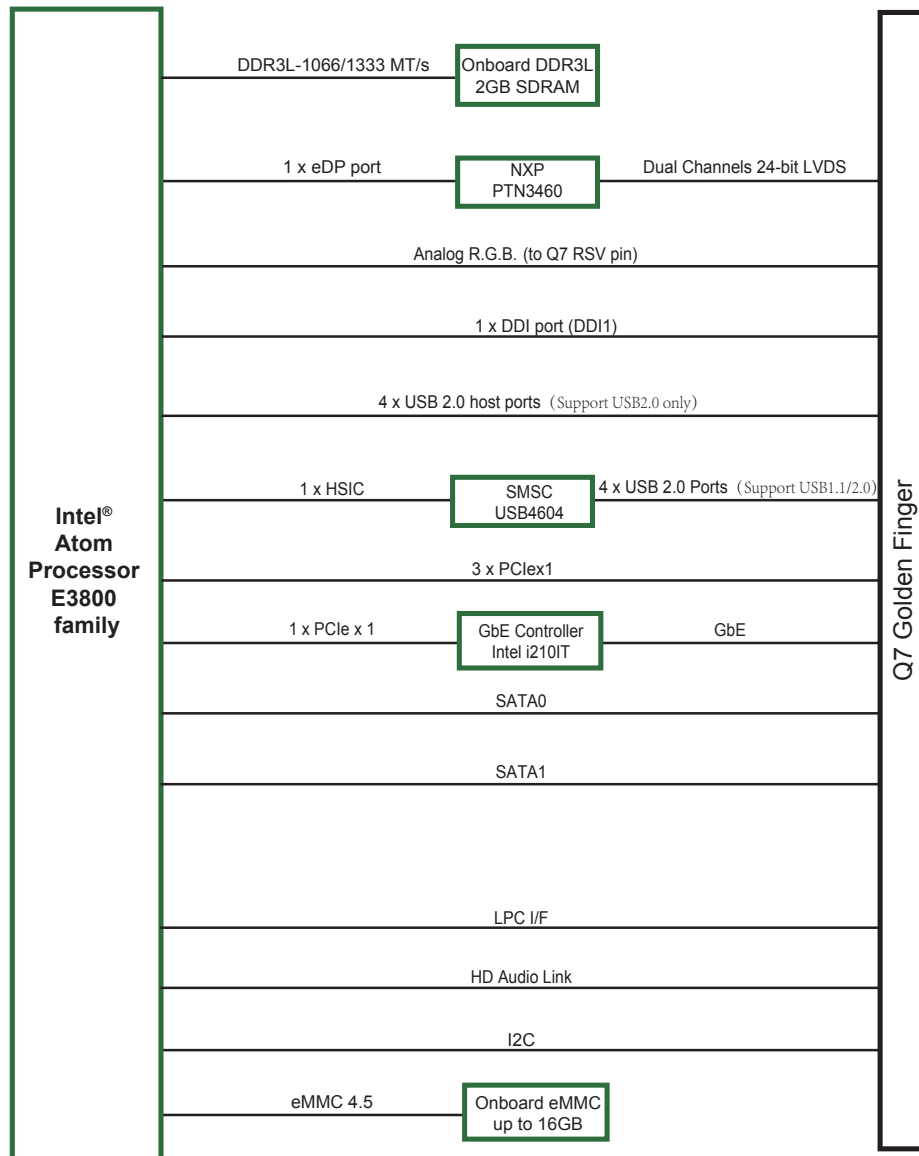
Internal Components:

- Three rectangular blocks (possibly doors or windows) are shown in the upper section.
- A central rectangular block is shown in the lower section.
- Small circular features (possibly doors or windows) are located at the bottom left and bottom right.

Unit:mm



Block Diagram



Ordering Information

EmQ-i2301-E3825-2G	Intel® Atom™ Processor E3825 Qseven® CPU module with 2GB memory soldered on module
EmQ-i2301-E3845-2G	Intel® Atom™ Processor E3845 Qseven® CPU module with 2GB memory soldered on module
EmQ-i2301-E3825-4G*	Intel® Atom™ Processor E3825 Qseven® CPU module with 4GB memory soldered on module
EmQ-i2301-E3845-4G*	Intel® Atom™ Processor E3845 Qseven® CPU module with 4GB memory soldered on module
EmQ-i2301D-E3825-2G*	Intel® Atom™ Processor E3825 Qseven® CPU module with 2GB memory & 16GB eMMC soldered on CPU module
EmQ-i2301D-E3845-2G*	Intel® Atom™ Processor E3845 Qseven® CPU module with 2GB memory & 16GB eMMC soldered on CPU module

Optional Accessories

HS-0662-F1	Heat spreader 70x65x8mm
HS-0000-W3	Universal evaluation heat sink kit with thermal pad 70x65x29.8mm, only used on a flat-type heat spreader
PBQ-3000	Qseven® R1.2 carrier board in EPIC form factor
CBK-06-3000-00	Cable kit 1 x USB cable 1 x USB2 cable 2 x Serial port cables 1 x SATA cable 1 x SATA power cable

*OEM request

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