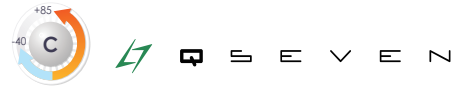
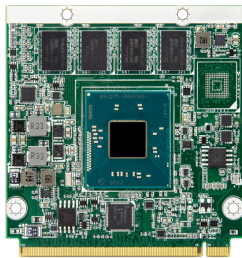




# EmQ-i230J



## Intel® Atom™ Processor E3800 family Qseven® R1.2 CPU Module



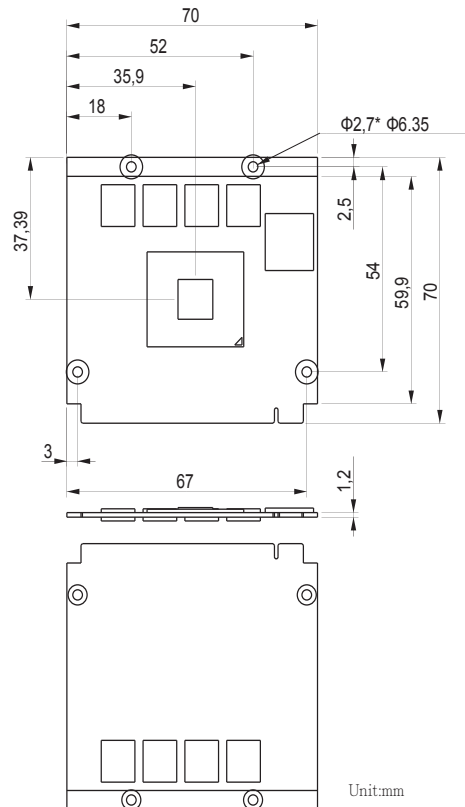
### Features

- **Fanless Design**
- Soldered Onboard Intel® Atom™ Processor E3800 family
- Integrated Gigabit Ethernet
- Soldered Onboard eMMC(OEM Request)
- Dual Channels 24-bit LVDS, DDI Port
- **Wide Range Operating Temp.:-40 ~ 85°C**

Computer on Module

System	
Processor	Soldered onboard Intel® Atom™ Processor E3800 family E3825 1.33GHz or E3845 1.91GHz
Memory	Soldered onboard 2GB/4GB DDR3L SDRAM
BIOS	Insyde BIOS
Watchdog	1~255 levels reset
I/O	
USB 2.0	8 x USB 2.0 ports
Expansion	3 x PCIe1, I2C, SDIO
Storage	2 x Serial ATA ports with 300MB/s HDD transfer rate up to 64GB eMMC 4.5 (OEM Request)
Ethernet	1 x Intel® Ethernet controller i21x series
Audio	HD Link
Display	
Graphics Chipset	Integrated Intel® Gen7 Graphic Analog RGB/DVI: Analog RGB (via RSV pin), with resolution up to 2048x1536
Graphics Interface	LCD: Dual Channel 24-bit LVDS, with resolution up to 1920x1200 DDI port: 1 x DDI port
OS Support	
Windows 7 32-bit/64-bit	
Windows 10 64-bit	
Linux: Ubuntu	

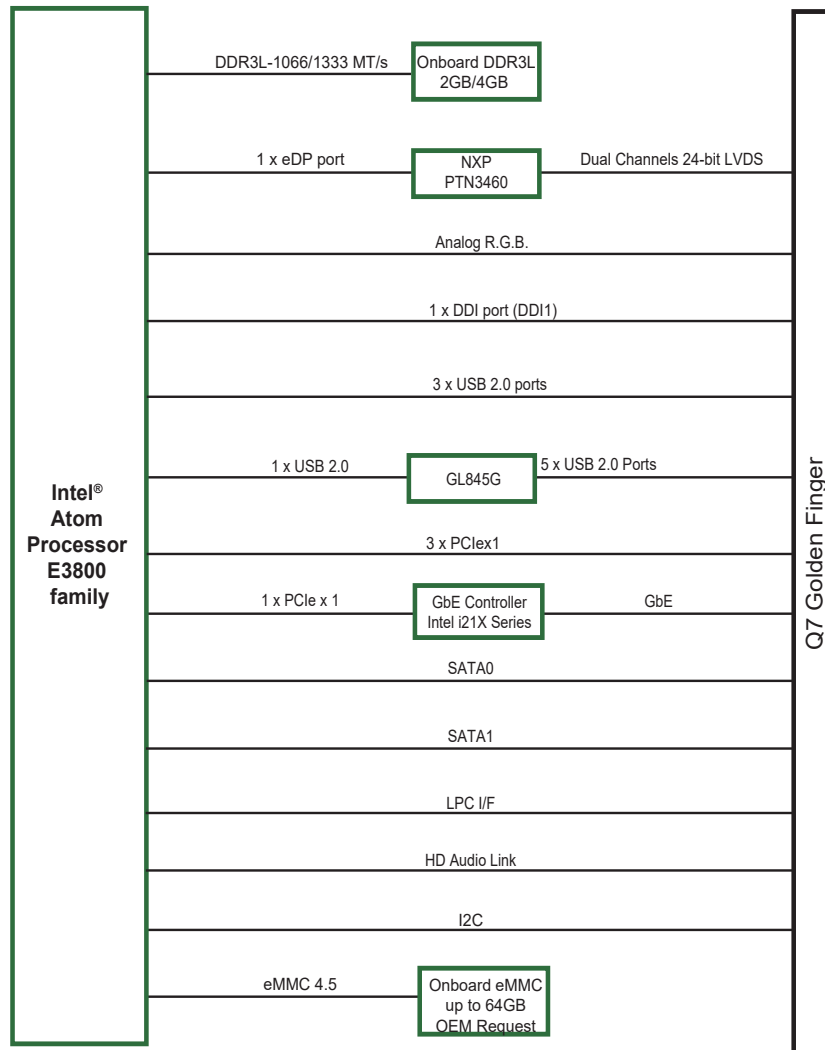
Mechanical & Environmental	
Power Requirement	DC 5V, 5VSB
Power Consumption	0.94A@12V with E3825 (Typical, with PBQ-3000)
Operating Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 85°C (non-condensing)
Dimension (L x W)	70 x 70 mm (2.76" x 2.76")
Dimensions	



All specifications are subject to change without notice.



**Block Diagram**



**Ordering Information**

EmQ-i230J-WT-E3825-2G	Intel® Atom™ Processor E3825 Qseven® CPU module with 2GB memory soldered on module
EmQ-i230J-WT-E3845-2G	Intel® Atom™ Processor E3845 Qseven® CPU module with 2GB memory soldered on module
EmQ-i230J-WT-E3825-4G	Intel® Atom™ Processor E3825 Qseven® CPU module with 4GB memory soldered on module
EmQ-i230J-WT-E3845-4G	Intel® Atom™ Processor E3845 Qseven® CPU module with 4GB memory soldered on module
EmQ-i230JD-WT-E3825-2G	Intel® Atom™ Processor E3825 Qseven® CPU module with 2GB memory soldered on module,w/ 32GB eMMC (OEM Request)
EmQ-i230JD-WT-E3845-2G	Intel® Atom™ Processor E3845 Qseven® CPU module with 2GB memory soldered on module,w/ 32GB eMMC (OEM Request)
EmQ-i230JD-WT-E3825-4G	Intel® Atom™ Processor E3825 Qseven® CPU module with 4GB memory soldered on module,w/ 32GB eMMC (OEM Request)
EmQ-i230JD-WT-E3845-4G	Intel® Atom™ Processor E3845 Qseven® CPU module with 4GB memory soldered on module,w/ 32GB eMMC (OEM Request)

**Optional Accessories**

HS-230J-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

Last update: 6/10/2021

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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