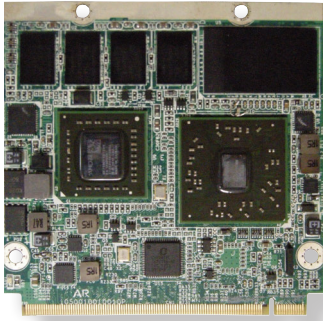


EmQ-a50M1



AMD G-Series APU G-T40E Qseven® CPU Module



Features

- **Fanless Design**
- Soldered onboard AMD G-Series APU G-T40E dual-core
- Integrated Gigabit Ethernet
- Dual Channels 18/24-bit LVDS, Analog RGB, and DDI Port
- **Extended Operating Temp.: -20 ~ 70°C**

System

CPU	Soldered onboard AMD G-Series APU G-T40E dual-core 1.0GHz
Memory	Soldered onboard 2GB DDR3L SDRAM
Chipset	AMD FCH A50M
BIOS	AMI UEFI BIOS
Watchdog Timer	1~255 levels reset

I/O

USB Port	8 x USB 2.0 ports
Expansion Bus	4 x PCIe x1 lanes SPI and LPC (Low Pin Count) interfaces
Storage	2 x Serial ATA ports 600MB/s HDD transfer rate 8GB NANDrive (optional)
Ethernet Chipset	1 x Realtek RTL8111E PCIe GbE controller
Audio	HD Audio link

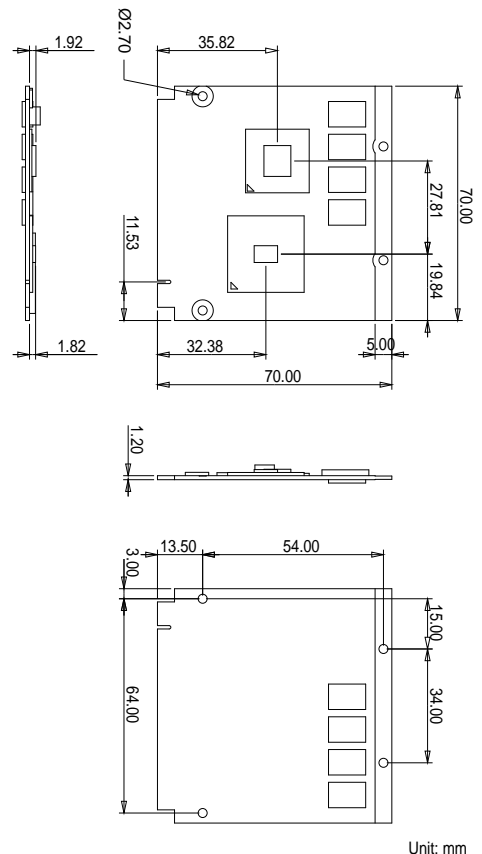
Display

Graphic Chipset	Integrated AMD Radeon HD 6250
Graphic Interface	LCD: Dual Channels 18/24-bit LVDS Analog RGB signals (via Qseven® GF reserved pin) supported 1 x DDI port

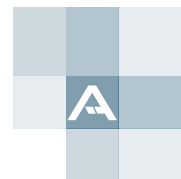
Mechanical & Environmental

Power Requirement	5V, 5VSB
Power Consumption	1.55A@+12V (Typical)
Operating Temp.	-20 ~ 70°C (-4 ~ 158°F) with EmQ-a50M1 -20 ~ 60°C (-4 ~ 149°F) with EmQ-a50M1D
Operating Humidity	10 ~ 95% @ 70°C with EmQ-a50M1 (non-condensing) 10 ~ 95% @ 60°C with EmQ-a50M1D (non-condensing)
Dimensions (L x W)	70 x 70 mm (2.76" x 2.76")

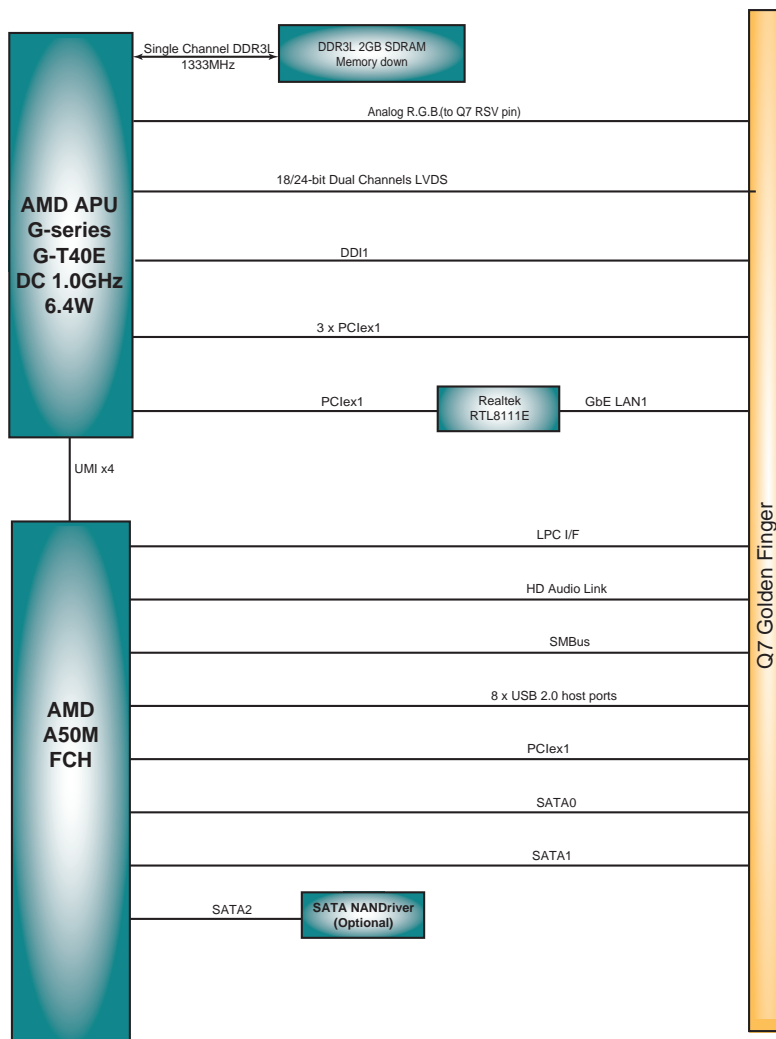
Dimensions



Unit: mm



Block Diagram



Ordering Information

EmQ-a50M1	AMD G-T40E Dual Core Q7 CPU module with 2GB memory soldered on module
EmQ-a50M1D (BTO)	AMD G-T40E Dual Core Q7 CPU module with 2GB memory and 8GB NANDrive soldered on module

Optional Accessories

StarterKit-003-50M1	Qseven® Starter Kit for EmQ-a50M1
HS-0520-F1	Heat spreader (70.0 x 65.0 x 8.0mm)
HS-0000-W3	Universal evaluation heatsink kit for Qseven® CPU module (70x70x30mm)
PBQ-3000	Qseven® EPIC evaluation board
CBK-06-3000-00	Cable kit 1 x USB cable 1 x USB2 cable 2 x COM-port cables 1 x SATA cable 1 x SATA power cable