DEVICE SPECIFICATION.

AVALUE
ECM-A50M
**ECM-A50M**

AMD eOntario T40N 3.5” Micro Module with AMD A50M Chipset

### Specifications

**System**
- **CPU**: AMD eOntario T40N 1.00GHz CPU (Optional T56N 1.60GHz CPU)
- **BIOS**: AMI 8Mbit SPI BIOS
- **System Chipset**: AMD A50M
- **I/O Chip**: Winbond W83627DHI-P
- **System Memory**: One 204-pin DDR3 SODIMM Socket Supports Up to 4GB DDR3 1066 SDRAM
- **SSD**: One CompactFlash Type I/II Socket
- **Watchdog Timer**: Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
- **H/W Status Monitor**: Monitoring System Temperature, Voltage, Auto Trotting Control When CPU Overheats
- **Expansion**: 1 x Mini PCIe (mSATA Supported )

**I/O**
- **MIO**: 1 x RS-232, 1 x RS-232/422/485, LPC, 2 x SATA
- **USB**: 7 x USB 2.0
- **DIO**: 8-bit GPO, 8-bit GPI

**Display**
- **Chipset**: AMD Fusion Accelerated Processors
- **Resolution**: CRT Mode: 1920 x 1200 @ 75Hz (T40N)
- **CRT Mode**: 2560 x 1600 @ 75Hz (T56N)
- **LCD/ Simultaneous Mode**: 2048 x 1536 @ 75Hz (T56N)
- **Multiple Display**: CRT + LVDS, HDMI + LVDS, CRT + HDMI
- **LCD Interface**: Dual-channel 18/24-bit LVDS (Transfer Through DDI)

**Built-in Touch Screen (Optional)**
- **Chipset**: PenMount 6000
- **Touch Screen Interface**: With 9-pin 2mm Box Header (Can be Selected to Support 4/5/8-wire Touch Screen)

### Features
- AMD eOntario T40N 1.00GHz CPU (Optional T56N 1.60GHz CPU)
- AMD A50M Chipset
- One 204-pin DDR3 SODIMM Socket Supports Up to 4GB DDR3 1066 SDRAM
- Dual View, 2-CH LVDS, CRT, HDMI
- 7.1-CH Audio, Dual Gigabit Ethernet
- 1 CF, 2 SATA, 2 COM, 7 USB, 16-bit GPIO

### Audio
- **AC97 Codec**: Realtek ALC892 Supports 7.1-CH Audio
- **Audio Interface**: Mic-in, Line-in, Line-out

### Ethernet
- **LAN**: 2 x Realtek 8111E Gigabit Ethernet
- **Ethernet Interface**: 10/100/1000 Base-Tx Gigabit Ethernet Compatible

### Mechanical & Environmental
- **Power Requirement**: +12V
- **ACPI**: Single Power ATX Support S0, S1, S3, S4, S5 ACPI 3.0 Compliant
- **Power Type**: AT/ATX
- **Operating Temperature**: 0 ~ 60°C (32 ~ 140°F)
- **Storage Temperature**: -40 ~ 75°C (-40 ~ 167°F)
- **Operating Humidity**: 0%-90% Relative Humidity, Non-condensing
- **Size (L x W)**: 5.7” x 4” (146mm x 101mm)
- **Weight**: 0.44lbs (0.2kg)

### Ordering Information
- **ECM-A50M**: AMD eOntario T40N 3.5” Micro Module with AMD A50M Chipset and CRT, 2-CH LVDS, HDMI, 7.1-CH Audio, 2 Gigabit Ethernet, CF, 2 SATA, 2 COM, 7 USB & 16-bit GPIO
- **ACC-CF-xx**: CompactFlash Card Series (xx = Capacity, Capacity Option: 128, 256, 512MB, 1, 2, 4, 8GB)
- **ACC-MEM-xx**: Memory Series (xx = Capacity, Capacity Option: 256, 512MB, 1, 2GB)
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