

ETX Modules

VIA

ETX-8X90-10GR

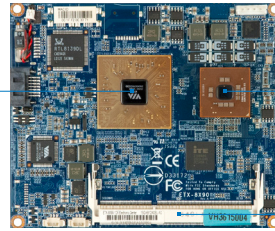
ETX® Module with high-performance multimedia capabilities

Features

- 1.06GHz VIA Eden® X1 processor
- Supports up to 4GB 1066 DDR3 SDRAM
- DX9 graphics with MPEG-2/WMV9/VC1/H.264 decoding acceleration
- Display interface for VGA, supporting resolutions of up to 2048 x 1536, and one 18/24-bit dual-channel LVDS panel
- Supports four USB 2.0 ports

Board Placement

VIA VX900 Chipset



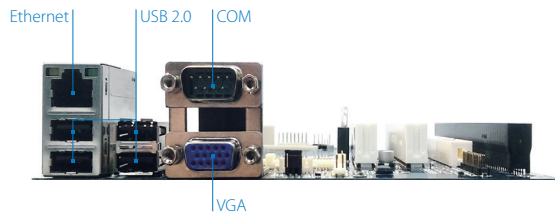
VIA Eden® X1 CPU

DDR3 SODIMM

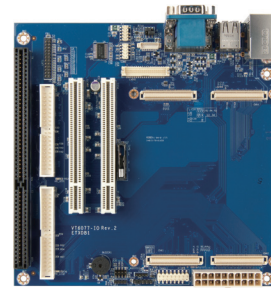
Specifications

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|---|---|
| Model Name | ETX-8X90-10GR |
| Processor | 1.06GHz VIA Eden® X1 |
| Chipset | VIA VX900 Media System Processor |
| BIOS | AMI BIOS, 8Mbit Flash memory |
| System Memory | 1 DDR3 1066 SODIMM slot Up to 4GB memory size |
| Storage | 1 SATA 1 IDE (2 nd optional) |
| Graphics | Integrated VIA Chrome®9 HD DX9 3D/2D graphics with MPEG-2, WMV9, VC1 and H.264 video decoding acceleration |
| LAN | Realtek RTL8139DL 10/100M Ethernet controller |
| Audio | 1 HD audio digital interface |
| Super I/O | Fintek F71869ED |
| Supported Expansion I/O | 2 PCI |
| Left Panel I/O | 1 SATA connector 2 Mini USB 2.0 (optional) 1 Micro SD card slot (optional) 1 Audio pin header for Line-in, Line-out, Mic-in |
| Supported I/O | 4 USB 2.0 ports 1 VGA 1 Dual-channel 18-bit/24-bit LVDS panel 2 COM 1 10/100M Ethernet 2 IDE (master mode only) (1 optional) 1 SMBus 1 I ² C 1 ISA (no DMA transfer support) |
| Operating System | Windows 7, Windows XP, WES 7, Windows CE 6.0, Linux |
| Power Mode | AT mode supported |
| System Monitoring & Management | CPU temperature reading, CPU fan speed reading, System voltage monitoring, Watch Dog Timer, Wake-on-LAN, System power management, AC power failure recovery |
| Operating Temperature | 0°C ~ 60°C |
| Operating Humidity | 0% ~ 95% (non-condensing) |
| Form Factor | 9.5cm x 11.4cm (3.7" x 4.45") |
| Compliance | ETX 3.0 (*2nd IDE optional) |

Carrier Board Back Panel I/O



Carrier Board (ETXDB1)



* The carrier board is only for evaluation purpose.

Specifications

| | |
|------------------------------|--|
| Model Name | ETXDB1 |
| Super I/O | Fintek F71869ED |
| Onboard I/O | <ul style="list-style-type: none"> 1 ISA connector (compatible with ISA ETX 3.0) 2 IDE connectors (master mode only) *Support for 2nd depends on module configuration 1 COM port pin headers 1 LPT connector 1 Dual-channel 18/24-bit LVDS panel connector 1 Audio pin header for Line-out, Mic-in 1 SMBus pin header 1 I²C pin header 1 Backlight voltage selects pin header 1 SIR pin header 1 RTC external battery holder 1 ATX power connector 2 PCI slots (compatible with PCI 2.3, 32bit/33Mhz) |
| Rear Panel I/O | <ul style="list-style-type: none"> 4 USB 2.0 ports 1 VGA port 1 COM port 1 10/100Mbps Ethernet connector |
| Power Supply | ATX power connector |
| Operating Temperature | 0°C ~ 60°C |
| Operating Humidity | 0% ~ 95% (non-condensing) |
| Form Factor | Mini-ITX (17cm x 17cm, 6.7" x 6.7") |

Ordering Information

| Model Name | CPU Frequency | Description |
|---------------|----------------------|---|
| ETX-8X90-10GR | 1.06GHz VIA Eden® X1 | ETX-8X90-10GR module with 1.06GHz VIA Eden® X1 CPU with VGA, LVDS, 4 USB 2.0, COM, 10/100Mbps Ethernet, SATA, IDE, 2 PCI, ATX power connector |
| ETXDB1 | N/A | ETX-8X90-10GR evaluation carrier board |
| 99G42-01473Q | N/A | Heatsink for ETX-8X90-10GR |
| TBC | N/A | Heat spreader for ETX-8X90-10GR |

Block Diagram

