

ETX Modules

VIA

ETX-8X90-10GR

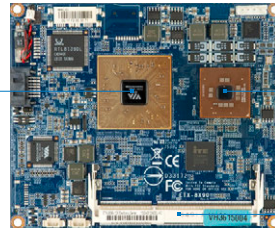
ETX® Module with high-performance multimedia capabilities

Features

- 1.06GHz VIA Eden® X1 processor
- Supports up to 4GB 1066 DDR3 SDRAM
- DX9 graphics with MPEG-2/WMV9/VC-1/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



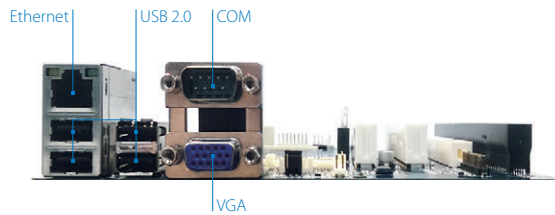
VIA Eden® X1 CPU

DDR3 SODIMM

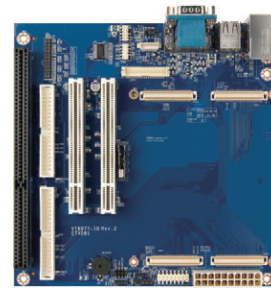
Specifications

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 C-9 HD DX9 3D/2D graphics with MPEG-2, WMV9, VC-1 and H.264 video decoding acceleration
LAN	Realtek RTL8139DL 10/100Mbps Ethernet controller
Audio	1 HD audio digital interface (supports Line-in, Line-out, Mic-in)
Super I/O	Fintek F71869ED
Supported Expansion I/O	2 PCI
Onboard I/O	1 SATA connector 2 Mini USB 2.0 ports (optional) 1 Micro SD card slot (optional)
Supported I/O	4 USB 2.0 ports 1 VGA 1 Dual-channel 18-bit/24-bit LVDS panel 2 UART 1 10/100Mbps 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
System Monitoring & Management	AC power failure recovery, CPU temperature reading, CPU fan speed reading, System power management, System voltage monitoring, Wake-on-LAN, Watchdog Timer
Operating Temperature	0°C ~ 60°C
Operating Humidity	0% ~ 95% (non-condensing)
Form Factor	9.5cm x 11.4cm (3.7" x 4.5")
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	1 ISA connector (compatible with ISA ETX 3.0) (no DMA transfer support) 2 IDE connectors (master mode only) *Support for 2 nd depends on module configuration 1 Dual-channel 18/24-bit LVDS panel connector 1 COM pin header 1 I ² C pin header 1 LPT pin header 1 SMBus pin header 1 SIR pin header 1 Audio pin header for Line-in, Line-out, Mic-in 1 Backlight and panel voltage selects 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	1 VGA port 4 USB 2.0 ports 1 COM port 1 10/100Mbps Ethernet port
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

Part Number	CPU Frequency	Description
10GAB10440020	1.06GHz VIA Eden® X1	ETX-8X90-10GR module with 1.06GHz VIA Eden® X1 CPU with VGA, LVDS, 4 USB 2.0, 2 UART, 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
99G42-100032	N/A	Heat spreader for ETX-8X90-10GR

Block Diagram

