

ETX Modules

VIA

ETX-8X90-10GR

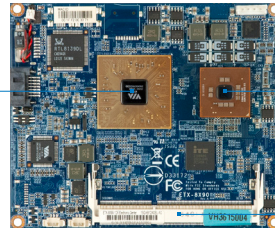
ETX® Module with high-performance multimedia capabilities

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



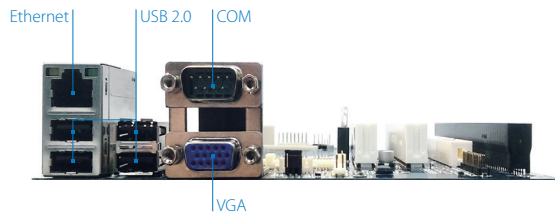
VIA Eden® X1 CPU

DDR3 SODIMM

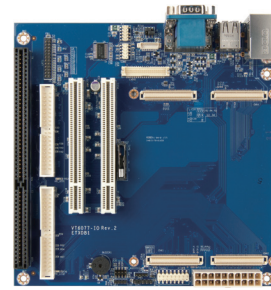
Specifications

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, 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	1 ISA (no DMA transfer support) 2 IDE (master mode only) (1 optional) 1 VGA 4 USB 2.0 ports 1 Dual-channel 18-bit/24-bit LVDS panel 2 COM 1 10/100M Ethernet 1 I ² C 1 SMBus
Power Mode	AT mode supported
Operating System	Windows 7, Windows XP, WES 7, Windows CE 6.0, Linux
VIA Smart ETK	BIOS flash tool, Hardware monitor, LCD backlight brightness control, Watchdog timer, GPIO, SMBus
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	1 ISA connector (compatible with ISA ETX 3.0) 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 port pin headers 1 I ² C pin header 1 LPT connector 1 SMBus pin header 1 SIR pin header 1 Audio pin header for Line-out, Mic-in 1 Backlight 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 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, 2 PCI, SATA, IDE, 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

