

Mini-ITX Series

VIA EPIA-M920

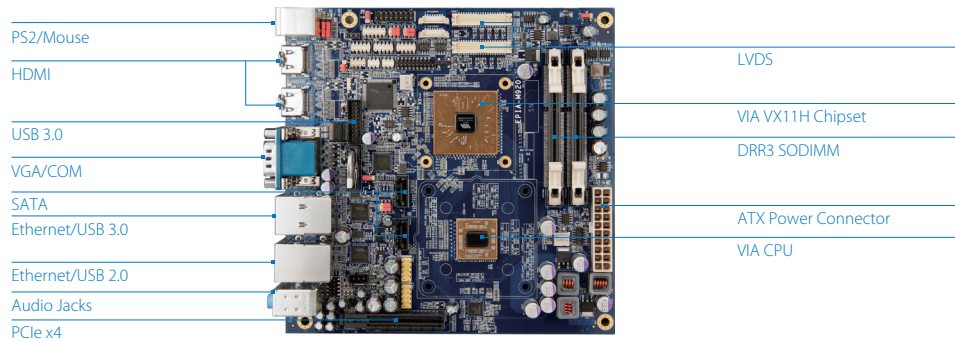
Highly-integrated low-power platform with rich feature set and multimedia capabilities

Features

- Compact 17cm x 17cm Mini-ITX form factor
- Fanless 1.6GHz VIA Eden® X4 option
- Dual Gigabit Ethernet
- DX11 graphics with MPEG-2/WMV9/VC1/H.264 decoding acceleration
- Rich feature set



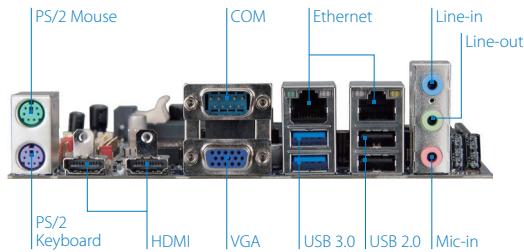
Board Placement



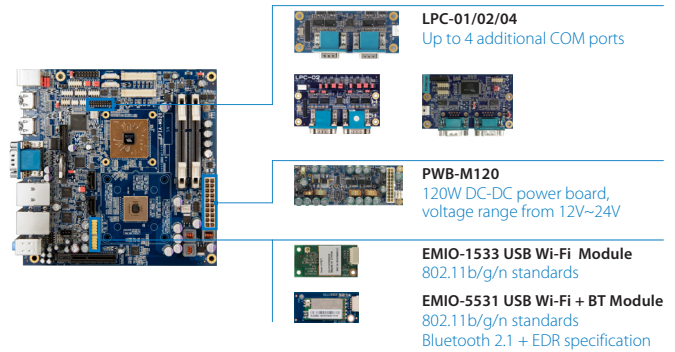
Specifications

Model Name	EPIA-M920-16QE
Processor	1.6GHz VIA Eden® X4 (Fanless)
Chipset	VIA VX11H Media System Processor
BIOS	AMI Aptio UEFI BIOS, 4MB Flash memory
System Memory	2 DDR3 1333 SODIMM slots Up to 8GB memory per slot
Storage	2 SATA connectors
Graphics	Integrated C-640 DX11 3D/2D graphics with MPEG-2, WMV9, VC1 and H.264 video decoding acceleration
LAN	Realtek RTL8111G
Audio	VIA VT2021 High Definition Audio Codec
Super I/O	Fintek F71869E
Expansion I/O	1 PCIe x4 slot
Onboard I/O	2 SATA connectors 2 SATA DOM power selectors 1 Dual-channel 18/24-bit LVDS panel connector 1 Single-channel 18/24-bit LVDS panel connector 1 USB 3.0 pin header for 1 port 2 USB 2.0 pin headers for 4 ports 3 COM port pin headers (powered with selectable 5V/12V) 1 Digital I/O pin header (4 GPI + 4 GPO) 1 LPC pin header 1 SMBus pin header 1 S/PDIF-out connector 1 Front audio pin header for Line-out, Mic-in 2 Smart Fan pin headers for CPU and system 2 Backlight control connectors for inverter power and brightness control 1 SD card (SDHC/SDXC) pin header 1 ATX power connector 1 PCIe x4 slot
Back Panel I/O	2 HDMI ports 1 VGA port 2 USB 3.0 ports 2 USB 2.0 ports 1 COM (powered with selectable 5V/12V) 2 Gigabit Ethernet ports 3 Audio jacks: Line-in, Line-out, and Mic-in 2 PS/2 keyboard/mouse ports
Power Supply	ATX power connector
Operating System	Windows 10/8.1/8/7, Win 10 IoT, WES 7, Linux, POSReady 7
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	Mini-ITX (17cm x 17cm, 6.7" x 6.7")
Compliance	CE, FCC

Back Panel I/O



Accessories



LPC-01/02/04
Up to 4 additional COM ports

PWB-M120
120W DC-DC power board,
voltage range from 12V~24V

EMIO-1533 USB Wi-Fi Module
802.11b/g/n standards

EMIO-5531 USB Wi-Fi + BT Module
802.11b/g/n standards
Bluetooth 2.1 + EDR specification

Ordering Information

Model Name	CPU Frequency	Description
EPIA-M920-16QE	VIA Eden® X4 @ 1.6GHz	Mini-ITX board with 1.6GHz VIA Eden® X4 CPU with 2 HDMI, VGA, 2 LVDS, 3 USB 3.0, 6 USB 2.0, 4 COM, 2 Gigabit Ethernet, PCIe x4 slot, 2 SATA, ATX power connector

Optional Accessories

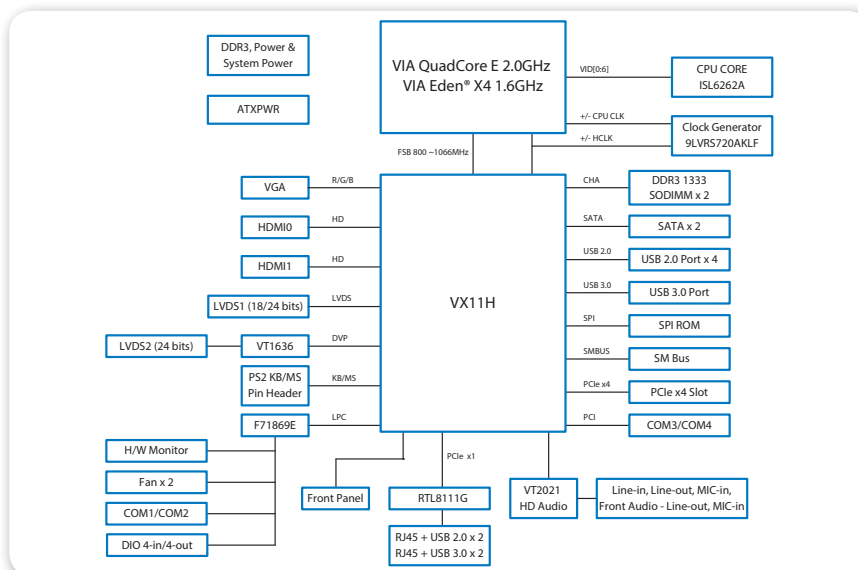
I/O Expansion Cards

Part Number	Description
LPC-01	Expansion module for four COM ports
LPC-02	Expansion module for four COM ports (5V or 12V)
LPC-04	Expansion module for two or four COM ports (5V or 12V)
PWB-M120	120W DC-DC power board, voltage range from 12V~24V

Wireless Accessories

Part Number	Description
00GO27100BU2B0D0	VNT9271 IEEE 802.11 b/g/n USB Wi-Fi dongle
EMIO-1533-00A2	VNT9271 IEEE 802.11 b/g/n USB Wi-Fi module with assembly kit and antenna
EMIO-5531-00A1	VAB-820-W IEEE 802.11 b/g/n USB Wi-Fi & Bluetooth module with assembly kit and antenna

Block Diagram



Packing List

Items
EPIA-M920 board
SATA cable
I/O bracket