

BK MVP4 v1.5 TECHNICAL SPECIFICATIONS

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FEATURES

MAIN / VIDEO CHIPSET

VIA Apollo MVP4

- VIA 8501 North bridge controller
- VIA 82C686A South bridge controller
- Integrated Trident 'Blade 3D' AGP 2x graphics engine
- Support for 66/75/83/95 and 100MHz FSB (Front Side BUS)
- Support for PC-100 memory up to 768MB
- Integrated AC-97 audio, Super I/O, Four USB ports and hardware monitoring
- ATA 33/66 support

ONBOARD TV ENCODER

Trident TVXpress

- PC 99 compliant
- Universal digital interface accepts YcrCb (CCIR656) or RGB (15,16 or 24-bit multiplexed) video data in both interlaced and non-interlaced formats
- TrueScale rendering engine supports underscan operations for various graphics resolutions.
- Supports NTSC, NTSC-EIA (Japan) and PAL (B, D, G, H, I, M and N) TV formats.
- Provides composite and SCART outputs
- Auto-detection of TV presence
- 9-bit video DAC outputs

ONBOARD MODEM

PCTel HSP56 MicroModem v3.03

- Dual mode V.90/56Kflex support
- PCI v2.2 compliant interface.
- ACPI supports 'On Now'
- Optional support for Caller ID
- On Chip PnP logic
- PC 99 Compliant
- PC 97 compliant audio
- Supports Windows 95/98/NT/2000 and Linux
- Supports V.90, V.34, V.32, V32bis, V.22 and V.22bis protocols.

ONBOARD SOUND

C-Media CMI8738AM

- HRTF-based 3Dm positional audio supporting DirectSound 3D and A3D interface.
- Supports rear side speakers, C3DX positional audio in 4-channel speaker mode.
- Legacy SoundBlaster 16 compatible.
- Downloadable DLS-based WaveTable music synthesizer with DirectMusic support.
- Professional digital audio interface supporting 24-bit SPDIF input and output in both 44.1KHz and 48KHz formats.
- Built-in 32ohm earphone buffer.
- Built-in PCTel HSP56 Modem interface.
- Drivers support AC3 5.1 channel interface.
- MPU-401 port.
- 16-bit full duplex CODEC for playback and recording.
- 4-channel 16-bit DAC
- 32-bit PCI bus master.

ONBOARD LAN ADAPTER

Davicom 9102A Fast PCI Ethernet adapter

- Integrated Fast Ethernet MAC, Physical Layer and transceiver.
- +3.3v power supply with +5v tolerant I/O
- PCI 2.2 compliant interface
- Independent receive FIFO and transmit FIFO
- IEEE 802.3u 100Base-TX and 802.3u 10Base-T compliant
- Full and half duplex mode support
- Supports Wake on LAN features
- High performance 100Mbps clock generator and data recovery circuit.
- Provides loopback mode for easy system diagnostics.

ONBOARD I/O PORTS

External Ports

- (1) Parallel port which supports EPP and ECP modes
- (2) USB ports
- (2) PS/2 ports
- (1) 15-pin VGA port
- All ports are PC 99 compliant for easy identification

Internal Ports

- (1) Primary EIDE controller with support for two UltraDMA 66 devices
- (1) Floppy drive controller with support for up to two drives
- (1) SPDIF digital audio connector

JUMPER SETTINGS

CLEAR CMOS JUMPER

JBAT1	FUNCTION	SETTING
	Clear CMOS	Short pins 2-3
	Normal CMOS Setting	Short pins 1-2

CONSTANT 3V SIGNAL

NOTE: Open/Close all jumpers

J10	FUNCTION	SETTING
	Enabled	Open
	Disabled	Short

CONSTANT 5V SIGNAL

NOTE: Open/Close all jumpers

J11	FUNCTION	SETTING
	Enabled	Open
	Disabled	Short

MOTHERBOARD PINOUTS

FRONT PANEL HEADER (J3)

PIN	FUNCTION	PIN	FUNCTION
1	Ground	6	Power LED
2	Power Supply	7	HDD LED +
3	Ground	8	HDD LED -
4	Reset	9	Suspend LED -
5	Ground	10	Suspend LED +

SPDIF HEADER (J9)

PIN	FUNCTION	PIN	FUNCTION
1	AUX In Left	5	SPDIF In
2	AUX In Right	6	Ground
3	12v +	7	SPDIF Out
4	N/C	8	Ground

MODEM DAA CONNECTOR

PIN	FUNCTION	PIN	FUNCTION
1	Ground	9	Off Hook
2	AFEMCLK	10	GPIOX
3	Ground	11	RIN
4	HSPFS	12	HSPSDO
5	Ground	13	5VSB
6	MSCLK	14	HSPSDI
7	PVCC3	15	MUTE
8	PRING	16	AFERST

CD AUDIO

PIN	FUNCTION	PIN	FUNCTION
1	Left channel	3	Ground
2	Right channel	4	Ground