



M3N78-VM

Work Smartly!

- AMD® AM2+ Quad-Core CPU/AM2 CPU Support
- NVIDIA GeForce 8200 Chipset
- Hybrid SLI Support
- HyperTransport 3.0 and PCIe 2.0 Ready
- HDMI/Full HD Support
- Smooth Blu-ray / HD DVD Playback
- Multi Displays Support
- DX10 Support
- Instant Internet Access with Express Gate™

CPU	AMD Socket AM2+ / AM2 Processors AMD Phenom™ FX / Phenom / Athlon™ / Sempron™ Support up to 140W CPU AMD Cool 'n' Quiet™ Technology
Chipset	NVIDIA GeForce 8200
System Bus	Up to 5200 MT/s ; HyperTransport™ 3.0 interface for AM2+ CPU 2000 / 1600 MT/s for AM2 CPU
Memory	4 x240-pin DIMM, Max. 8 GB, DDR2 1066/800/667/533 ECC,Non-ECC,Un-buffered Memory Dual Channel memory architecture *DDR2 1066 is supported by AM2+ CPU only **Refer to www.asus.com or user manual for Memory QVL (Qualify Vendor List) ***When installing total memory of 4GB capacity or more, Windows® 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended.
Expansion Slots	1 x PCIe x16 1 x PCIe x1 2 x PCI
Scalable Link Interface (SLI™)	Hybrid SLI™ Support (support Windows® Vista only.)
VGA	Integrated NVIDIA GeForce® 8 Series GPU Hybrid SLI™ Support (support Windows® Vista only.) Supports HDMI™ Technology with max. resolution up to 1920 x 1200 Supports DVI with max. resolution up to 1600 × 1200 Supports D-Sub with max. resolution up to 1920 × 1440 Supports Microsoft® DirectX 10, OpenGL 2.0, Pixel Shader 4.0 Support PCIe 2.0 / 1.0 Architecture Maximum shared memory of 256MB
Storage	Chipset 1 xUltraDMA 133/100 5 x SATA 3Gb/s ports (Use SATA1-3 for IDE mode.) NVIDIA® MediaShield™ Chipset built-in, , RAID 0,1,0+1,5, JBOD
LAN	NVIDIA nForce built-in Gigabit MAC with external RTL8211CL-GR
Audio	VT1708B 8 -Channel High Definition Audio CODEC - Optical S/PDIF out port at back I/O - Support Jack Detection and Multi-streaming
USB	12 USB 2.0 ports (6 ports at mid-board, 6 ports at back panel)
ASUS Unique Features	ASUS Quiet Thermal Solution - ASUS Q-Fan ASUS EZ DIY

	- ASUS CrashFree BIOS 3 - ASUS EZ Flash 2
Overclocking Features	- GPU Overclocking up to 600 MHz - SFS (Stepless Frequency Selection) - HT tuning from 200MHz up to 400MHz at 1MHz increment - Memory tuning from 533MHz up to 1066MHz - PCIe frequency tuning from 100MHz up to 200MHz at 1MHz increment - Overclocking Protection: - ASUS C.P.R. (CPU Parameter Recall)
Special Features	- ASUS MyLogo 2 - ASUS AI NET 2
Back Panel I/O Ports	1 x PS/2 Keyboard/Mouse Combo port 1 x Optical S/PDIF Out 1 x HDMI 1 x DVI 1 x D-SUB 1 x External SATA (Does not support port multiplier) 1 x RJ45 port 6 x USB 2.0/1.1 8-Channel Audio I/O
Internal I/O Connectors	3 x USB connector (6 ports) 1 x Floppy disk drive connector 1x TPM header 1 x COM connector 5 x SATA connectors 1 x CPU Fan connector 1 x Chassis Fan connector 1 x Power Fan connector 1 x Front panel audio connector 1 x S/PDIF Out connector 1 x Chassis Intrusion connector 1 x CD audio in connector 1 x 24-pin ATX Power connector 1 x 4-pin ATX +12V Power connector 1 x System Panel connector
BIOS	8 Mb Flash ROM - DMI 2.0 - AMI BIOS - PnP - WfM 2.0 - SM BIOS 2.5 - ASUS EZ Flash 2
Accessories	- User's manual 1 x UltraDMA 133/100 cable 1 x FDD cable 2 x SATA cables 1 x 2-port SATA power cables 1 x User manual
Support Disc	- Drivers - ASUS PC Probe II - Express Gate - Anti-virus software (OEM version) - ASUS Update
Form Factor	- uATX Form Factor 9.6 inch x 9.6 inch (24.4 cm x24.4 cm)