

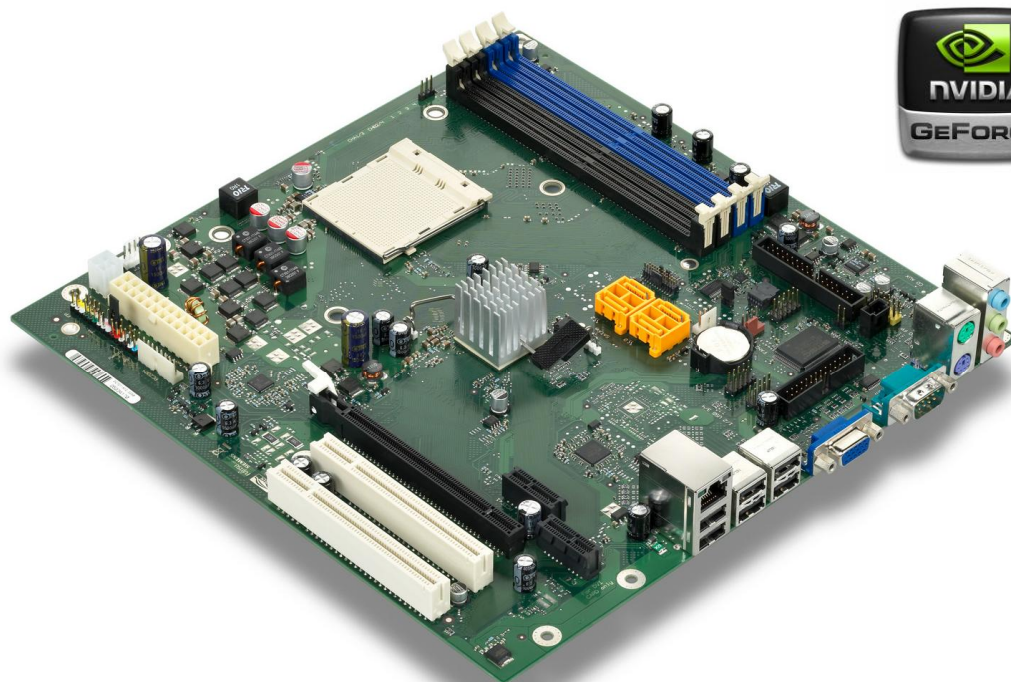
DATA SHEET

MAINBOARD D2721-A µBTX Classic Desktop Series

Issue July 2009

Pages 2

nVIDIA GeForce 8200 (MCP78PV) Chipset for DDR2 800 / 667 SDRAM Memory and AMD Phenom™ / Athlon™ / Sempron™ Processors (Hyper Transport™ 3.0)



Chipset:

nVIDIA MCP78PV

Processors:

AMD Phenom™
AMD Athlon™
AMD Sempron™

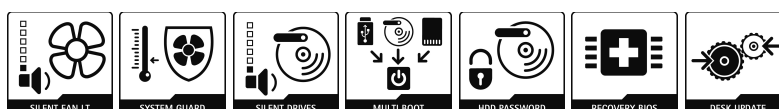
Socket AM2+ with Hyper Transport™ 3.0
and Split Power Plane Support

Memory:

DDR2 667 SDRAM
DDR2 800 SDRAM

Product Features:

nVIDIA GeForce 8200 integrated graphics on board
Audio on board
GbE LAN on board
Serial ATA II RAID on board
USB 2.0 on board
Trusted Platform Modul V1.2 onboard



Board Size	µBTX: 10,5" x 9.95" (266.7 x 264.2 mm)
Chipset	nVIDIA GeForce 8200 (MCP78PV)
Memory	4 DIMM Sockets (1.8V), 256MB - 8GB, Single Channel or Dual Channel DDR2 800/667 SDRAM, unbuffered, no ECC
Processors	AMD Phenom™ Processors (Quad Core and Triple Core), Athlon™ 64 X2 Processors, AMD Athlon™ 64 Processors, AMD Sempron™ Processors Socket AM2+, Hyper Transport™ 3.0, Split Power Plane, up to 95W (For details on supported processors, please refer to our website)

Power Specification
 BTX12V (24 Pin) or ATX12V (20 Pin) Power Supply required
 Support for Soft-Off Power Supplies
 5V and 3.3V Supply Voltage on PCI Slots (PCI Rev. 2.3)
 3.3V Auxiliary Supply Voltage on PCI Slots (Wake-Up Function)
 On board CPU Voltage Regulator, 5V / 2A Auxiliary Power required for USB Wake-Up from Save-to-RAM, Save-to-Disk

Power Supply Requirements
 for onboard components (worst case)

Source	Voltage	Maximal variation	Mainboard Current (Maximal)
Main Power Supply	+ 12 V	± 5 %	12 A
	- 12 V	± 10 %	0.05 A
	+ 5 V	± 5 %	6.0 A
	+ 3.3 V	± 5 %	3.0 A
Aux. Power Supply	+ 5 V	± 5 %	2A

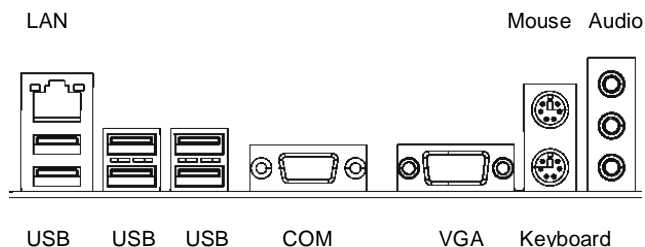
BIOS
 Phoenix TrustedCore BIOS Version V6.00
 modified and adapted by Fujitsu Technology Solutions; Recovery BIOS, SM-BIOS (DMI), BIOS Update via disk (stable user settings), Quick Boot, Logo Boot, Quiet Boot, Plug & Play, Automatic DRAM and PCI Configuration, BIOS Support for S.M.A.R.T., Advanced Power Management, ACPI S3 (Save-to-RAM), ACPI S4 (Save-to-Disk), Wake on time from S5

Security Features
 Recovery BIOS, System and BIOS Password, Boot and/or Write Protection for Floppy Disk Drive, Boot Sequence, Serial Port Access Protection, Boot Sector Virus Warning, Write Protection for Flash BIOS, Trusted Platform Module (TPM) V1.2 (Infineon)

Special Features

Silent Fan LT	Independent temperature related processor fan and system fan control
System Guard	View and adjust Silent Fan LT
Silent Drives	Noise reduction for optical and hard disk drives
Recovery BIOS	Restores a corrupted BIOS
Desk Update	Simple driver update with DU CD
Multi Boot	Comfortable boot from any boot device

External Connectors



Graphics	nVIDIA GeForce 8200 integrated graphics, shared memory (up to 256MB), DirectX 10 compliant, upgradeable with PCI Express x16 Graphics Card
Audio	Realtek ALC262, 2-channel, High Definition Audio
LAN	Broadcom BCM5787 with 10/100/1000 Mbit/s via PCI Express, ASF 2.0, Wake-on-LAN (WoL) by interesting Packets, Link Status Change and Magic Packet™, bootix® PXE Support, BIOS MAC Address Display
Drives	4 Serial ATA II 300 Interfaces (up to 3 GBit), up to 4 Drives, RAID 0/1 1 Floppy

D2721-A

Features

Chipset	nVidia MCP78PV
Board Size	µBTX
VGA	ü
Stereo Audio / Multichannel Audio	ü / -
Buzzer / int. Speaker Support	- / ü
LAN Gbit / 100 Mbit / 10 Mbit	ü / ü / ü
LAN ASF / AoL / WoL / Boot	ü / - / ü / ü
SATA / ATA / RAID / eSATA-support ¹⁾	ü / - / ü / ü
FireWire™ / USB 2.0	- / ü
FAN monitored PSU ³⁾ / CPU / AUX1 / AUX2	- / - / - / -
FAN controlled PSU ³⁾ / CPU / AUX1 / AUX2	- / ü / ü / -
TEMP monitored CPU / ONB1 / ONB2 / OFFB	ü / ü / ü / -
Special Features	
Silent Fan / Silent Fan LT / System Guard / Silent Drives	- / ü / ü / ü
Recovery BIOS / Desk Update / Multi Boot	ü / ü / ü
HDD Password / Logo Boot	ü / ü
Internal Connectors	
DIMM Sockets (DDR2 / DDR3)	4 / -
PCI Express x16 (Gen. 2)	1
PCI Express x1 Slot	1
PCI Slots (32Bit, 33 MHz, Rev. 2.3)	2
Extension Slot for DVI connector module	1
SATA (300) / ATA (133) / Floppy	4 / - / 1
S/PDIF (digital Audio) OUT / IN	1 / -
Audio Input	-
Frontpanel Audio (9-Pin) AC'97 / Azalia	- / 1
FireWire™ (9-Pin, Intel standard header)	-
USB (2.0, ~480 MB/s, 2 channels per connector)	2
Serial (FIFO, 16550 compatible)	-
FAN PSU ³⁾ / CPU / AUX1 / AUX2	- / 1 / 1 / -
Intrusion (Case Open)	ü
Parallel (EPP/ECP) Pin Connector	1
Power 24 pin (BTX) / 4 pin (12V processor supply)	1 / 1
External Connectors	
VGA Sub D / DVI ²⁾	1 / -
Audio Mic. In / Line in / Line out (or driver configuration)	1 / 1 / 1
Audio Surround / RearSurround / CenterLFE	- / - / -
S/PDIF (digital Audio, cinch) OUT / IN	- / -
S/PDIF (digital Audio, optical) OUT	-
LAN (RJ-45)	1
PS/2 Mouse / Keyboard	1 / 1
FireWire™ (6-Pin, IEEE 1394)	-
USB (2.0, ~480MB/s)	6
Serial (RS232, FIFO, 16550 compatible)	1
Parallel (EPP/ECP) ⁴⁾	-

- 1) No Hot Plug support
- 2) DVI optional via connector module
- 3) Not supported by standard PowerSupplies
- 4) External parallel port possible via optional connector

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