

# PRODUCT BULLETIN

## MOBILE586DX - LOW PROFILE FLAT PANEL COMPUTER



### GENERAL DESCRIPTION

AMP's Mobile586DX is a cost effective PC-AT compatible embedded computer in a standard 3U card format. The Mobile486DX is 100% compatible with MSDOS, Windows 3.x, TCP/IP, QNX, etc. In addition to built-in controllers for floppy and IDE drives, the built-in FlashDisk enables the Mobile486DX to be used in high reliability diskless applications. The on-board SVGA controller is capable of directly driving the widest range of LCD, TFT, EL, Plasma Flat Panels to 1024 x 768 resolution. An on-board 24-bit video bus allows live video to be overlaid in a window on CRT or Flat Panel display. System expansion is via the AT96 bus (for rack-mount applications) and 16-bit PC/104. The PC/104 provides low cost expansion for addition of functions such as PCMCIA, Frame Grabber, additional Comms, Analogue and Digital I/O.



For further information on this, or any other Advanced Micro Peripherals product, please contact our technical sales team at [sales@ampltd.com](mailto:sales@ampltd.com).

### FEATURES

- 100% PC-AT Compatible
- Low Power Operation
- 486DX and 586SX processor to 133MHz
- 4-32 MBytes DRAM
- 1-4 MBytes FlashDisk, Built-in ROMDOS
- Standard COM1, COM2 (RS232) serial ports
- Bi-Directional printer port
- Supports 2 floppy and 2 IDE drivers
- PS2 Mouse and Keyboard
- SVGA for CRT and Flat Panels to 1024 x 768
- Expansion through PC/104 stackable bus.
- Very compact size (160 x 100 x 15mm)

### APPLICATIONS

- Runs DOS, Windows, QNX
- Ideal for embedded control and instrumentation
- Video bus for live video overlay on Flat panel
- High Performance, low cost
- High integration for Easier EMC compliance.
- Very low profile (less than 15mm)
- FlashDisk and ROMDOS for diskless operation
- Low cost expansion through PC/104
- UK design, manufacture and technical support

### ORDERING INFORMATION

The following part numbers can be used when placing an order:

REV 1.00 Subject to change without notice.



**ADVANCED MICRO PERIPHERALS Ltd.**  
Witchford, Cambridgeshire, CB6 2HY, England  
Tel: **+44 1353 659 500** Fax: **+44 1353 659 600**

website: [www.ampltd.com](http://www.ampltd.com)  
Email: [sales@ampltd.com](mailto:sales@ampltd.com)





### TECHNICAL SPECIFICATION

<b>PC-AT Compatibility</b>		100% PC-AT compatible
<b>Processors</b>		486DX - 586DX at up to 133MHz
<b>Memory</b>		DRAM 4 - 32 MBytes DRAM Flash/EPROM 512 - 4096 KBytes Flash
<b>Peripherals</b>	VGA	SVGA to CRT at up to 1024 x 768, TFT, STN display at up to 1024 x 768, EL, Plasma display at 640 x 480, Interface to AMP's MTV104 Frame Grabber to display live video on CRT and TFT Panel
	Serial Ports	Standard PC Com1, Com2 RS232 ports
	Parallel Port	Bi-directional Printer/Scanner port
	Disk	Direct attachment for 2 IDE drives, Direct attachment for 2 floppy drives, Up to 4 MBytes read/write <b>FlashDisk</b> with embedded hard disk emulation
	Keyboard/Mouse	Supports Keyboard and PS2 Mouse, Battery-backed RTC and CMOS SRAM
<b>PC/104 bus</b>		Full 16-bit stackable PC104 expansion
<b>AT96 bus</b>		Standard 96-way AT96 on DIN connector
<b>Physical Size</b>		Standard 3U (100mm x 160mm x 15mm) low profile module
<b>FlashDisk</b>		<p>The FlashDisk looks exactly like a hard disk and all the usual DOS disc commands such as COPY, DEL, DIR, etc apply</p> <p>You do not need to format or use an external software utility You do not need to create special binary files You simply use standard DOS commands such as COPY, DEL, DIR, etc You simply COPY your application from attached disk drive or serial port Your files (.EXE or .COM) are auto-run even without keyboard or display</p> <p>You do not need to be a 'Rocket Scientist' to install your application software on the AMP range of computers, it's that simple!</p>

REV 1.00 Subject to change without notice.



**ADVANCED MICRO PERIPHERALS Ltd.**  
Witchford, Cambridgeshire, CB6 2HY, England  
Tel: +44 1353 659 500 Fax: +44 1353 659 600

website: [www.ampltd.com](http://www.ampltd.com)  
Email: [sales@ampltd.com](mailto:sales@ampltd.com)

