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TLA721 Dual Monitor Benchtop Controller Specifications

The following tables list the specifications for the TLA721 Dual Monitor Benchtop Controller.

Table 44: TLA721 benchtop controller characteristics

Characteristic		Description
Operating system		Microsoft Windows 2000
Microprocessor		Intel 733 MHz Pentium III configuration with an Intel 815E chip-set
Main memory		Two 144 pin SODIMM sockets support one or two SDRAM modules.
	Available configurations	16, 32, 64, 256 MB per SODIMM
	Installed configuration	512 MB maximum configuration
	Speed	133 MHz
	CAS latency	2, 3
	RAS to CAS delay	2, 3
	RAS precharge	2, 3
	DRAM cycle time	5/7 or 7/9
Cache memory		512 KB, level 2 (L2) write-back cache
Flash BIOS		512 KB Provides PC plug-and-play services with and without Microsoft Windows operating system. Flash based BIOS field upgradable via a floppy disk Forced recovery jumper is provided
Real-time clock and CMOS setups NVRAM		Real-time clock/calendar. Standard and advanced PC CMOS setups: see BIOS specifications
RTC, CMOS setup, & PnP NVRAM retention time *(Typical)*		Battery life is typically > 7 years
Floppy disk drive		Standard 3.5 inch, 1.44 MB, high-density, double-sided, PC-compatible high-density floppy disk drive
	Transfer rate	500 Kb per second
	Access time (ave.)	194 ms

Table 44: TLA721 benchtop controller characteristics (cont.)

Characteristic		Description
Bootable replaceable hard disk drive		Standard PC compatible IDE (Integrated Device Electronics) hard disk drive residing on an EIDE interface
	Size	40 GB Continually subject to change due to the fast-moving PC component environment. This storage capacity valid at product introduction.
	Interface	ATA-5/Enhanced IDE (EIDE)
	Average seek time	Read 12 ms
	I/O data-transfer rate	33.3 MB/s maximum (U-DMA mode 2)
	Average latency	7/14 ms
	Cache buffer	512 KB
CD-RW Drive		Standard PC compatible IDE (Integrated device Electronics) 8x-8x-24x CD-RW drive residing on an IDE interface. Continually subject to change due to the fast-moving PC component environment.
	Applicable formats	CD-DA; CE-ROM Mode 1, Mode 2; CD-ROM XA Mode 2 (Form 1, Form 2); Photo CD (single/multi session); Enhanced CD
	Interface	IDE (ATAPI)
	Average access time	130 ms
	Data-transfer rate (burst sustained)	16.7 MB per second maximum, 1290-3000 KB per second
Display classification		Standard PC graphics accelerator technology (bitBLT based) residing on the Peripheral Component Interconnect (PCI) bus capable of supporting external color VGA, SVGA, or XGA monitors.

Table 44: TLA721 benchtop controller characteristics (cont.)

Characteristic		Description		
Display configuration		Hardware automatically senses a missing flat panel LCD in the benchtop mainframe and defaults to the external SVGA monitor output during the BIOS boot sequence (no internal TFT LCD display exists). This is indicated by a single beep during the boot sequence. Dynamic Display Configuration 1 (DDC1) support for the external monitor is provided.		
Display memory		4 MB SDRAM is on board the video controller; no external video memory		
Display drive		Two VGA, SVGA, or XGA compatible analog output ports		
Display size		User selected via Microsoft Windows Plug and Play support for DDC1 and DDC2 A and B		
	(Primary video port with Silicon Motion Chip)	*Resolution (Pixels)*	*Colors*	*Refresh Rates*
		640 x 480	256, 64 K, 16.8 M	60, 75, 85
		800 x 600	256, 64 K, 16.8 M	60, 75, 85
		1024 x768	256, 64 K, 16.8 M	60, 75, 85
		1280 x 1024	256, 64 K, 16.8 M	60
		1600 x 600	256, 64 K	60
		1600 x 1200	256, 64 K	60
	(Secondary video port with 815E Chip set)	*Resolution (Pixels)*	*Colors*	*Refresh Rates*
		640 x 480	256, 64 K, 16.8 M	60, 75, 85
		800 x 600	256, 64 K, 16.8 M	60, 75, 85
		1024 x768	256, 64 K, 16.8 M	60, 75, 85
		1280 x 1024	256, 64 K, 16.8 M	60, 75, 85
		1600 x 1200	256	60, 75

Table 45: Front panel characteristics

Characteristic	Description
SVGA output port (SVGA)	Two 15-pin sub-D SVGA connectors
Dual USB ports	Two USB (Universal Serial Bus) compliant ports
Mouse port	Front panel mounted PS2 compatible mouse port utilizing a mini DIN connector
Keyboard port	Front panel mounted PS2 compatible keyboard port utilizing a mini DIN connector
Parallel interface port (LPT)	36-pin high-density connector supports standard Centronics mode, Enhanced Parallel Port (EPP), or Microsoft high-speed mode (ECP)
Serial interface port (COM)	9-pin male sub-D connector to support an RS232 serial port
PC CardBus32 port	Standard Type I and II PC compatible PC card slot
Type I, II, and III PC Card Port	Standard Type I, II, and III PC compatible PC card slot

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