



# Preliminary DATA SHEET



## 7581-UL3 Industrial Computer

A Versatile, High Performance System for Demanding Physical Environments

### AT A GLANCE

- \* The new 7581 products provide greater flexibility, speed, reliability, capacity, with a long-life system board design.
- \* Increased flexibility with Intel "All-in-one" ATX architecture planar design with 6 PCI and one AGP Video slot, dual or quad Ethernet, audio, 6 USB ports, 2 Serial, 1 parallel, and general purpose I/O
- \* Enhanced system performance with higher performing processors (Intel Pentium® 4 2.4 GHz Processors)
- \* Increased memory (up to 2GB with approved DDR 266Mhz Ram)
- \* Faster and more capable Intel AGP graphics
- \* High system reliability and availability
- \* Intel's latest ATX P4 533 MHz 512K cache technology
- \* Three external 5.25" bays
- \* System board offering P4 performance based on Intel 845 chipsets and super I/O

### Overview

Count on these highly versatile and high-performance systems from Intel for superior reliability around the clock— even in demanding physical environments.

Whether used as a single, standalone system or in a LAN environment, these systems:

- \* Provide you with an open computing platform required for use in telecom, government, medical, transaction terminals and industrial automation applications.
- \* Deliver speed and solid functionality for off-the-shelf or customized applications.
- \* Feature 24 x 7 availability Include many different mounting options (bench, rack, or floor)

### What's New

New 7581 models provide customers with:

- \* Combined PCI and AGP technologies in rugged active ATX planar systems
- \* Enhanced systems performance with P4 processors
- \* Increased memory level support up to 2G of 266 MHz DDR memory
- \* Improved integration utilizing "all-in-one" ATX architecture combining video, networking, and audio.

### Key Prerequisites

- \* An operating system is required to use the features of these systems.
- \* Preloaded options are available thru Ross Technologies (407) 872-0874.

## SPECIFICATIONS Intel P4 Version

FEATURE	FUNCTION	DESCRIPTION
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### ADDITIONAL FEATURES

- \* 24 hour-a-day, 7 day-a-week reliability
- \* 3-5 year Long-Life architecture
- \* 2 year warranty\*
- \* Designed for easy component accessibility
- \* Versatile mounting options (bench, rack)
- \* High volume cooling fans for operation in demanding environments
- \* High performance P4 up to 2.2 GHz



### PRODUCT POSITIONING

The new 7581 products provide an outstanding combination of price, unmatched performance, and versatility. Whether used as a single, stand-alone system or in a LAN environment, these systems deliver the speed and solid functionality needed for off-the-shelf or customized applications. The 7581 offers a Pentium 4 up to 2.4 GHz processor, 2GB DDR 266 memory, fast ATA100 hard disk drive access, and Intel 64M AGP 3D graphics. System monitoring of temperature and fan operation is provided for even higher levels of system reliability. Also integrated are 10BaseT/100 Base TX Ethernet and sound.

### ORDERING INFORMATION

Ross Technologies Group, LLC  
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\* 2 year motherboard only warranty —shipping charges may apply

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Processor	Socket	478-pin PGA ZIF for 2.4 GHz Intel Pentium® 4 processor 533 MHz operation
	FSB	400Mhz and High performance 533Mhz 2.4GHz processor
Chipset		Intel® 845
Memory	Type	Two 184-pin DIMM sockets PC266 DDRAM, 2.5V
	Capacity ECC/Parity	256 MB Standard, upgradeable to 2GB and 8G Supported
Video	Controller	Intel extreme graphics AGP 64MRam
Audio	Controller	Analog Devices AC97
	Connectors	Mini Stereo: Line-In, Line-Out, Microphone-In
Network	Controller	Quad Intel 82562 PHY 10/100Mhz IEEE 802.3 10Base-T and 100Base-TX compatible
	Connector	RJ45 with LEDs for line activity, link integrity and line speed
IDE	Devices Hard Disk Drive Types	Two Ultra ATA/100 or ATA/66 interfaces via 40-way boxed header 80 GB 7200RPM Supports ATAPI, LS120 and ZIP drives
Floppy	Types	1.44 MB supports standard 2 – and 3-mode 3.5” floppy drive
Mechanical	Dimensions	Width: 432 mm (17.0 inches) Depth: 498 mm (19.6 inches) Height: 177 mm (7.0 inches) Weight: 20.0 kg (44.0 pounds) (actual weight depends on installed options)
I/O	ParallelPort Serial Ports	25-pin D-type supporting bi-directional, EPP and ECP modes COM1 on 9-pin D-type
	USB	Two Dual stacked USB 2.0 rear connector One Motherboard header for cabled USB ports
	Keyboard & Mouse Keyboard	PS/2 connectors Standard keyboard 101 codes Motherboard headers for keyboard and mouse ports
Expansion Slots	PCI/ISA	Six dedicated bus master PCI 2.2 slots
	AGP	One 4X AGP slot with retainer clip used for ATI video
System Management	Integrated Watchdog Timer	Monitoring of voltage, temperature and fans Anti-tamper security Three system fans and CPU heat sink fan
Power Management		PCI PME, ACPI 1.0, APM 1.2
Power Supply	Type Typical	Support for hard- and soft- switched PSU, 300W AC 60W
Battery		Lithium coin cell (Five years operating life typical) Optional super-cap for 1 hour backup
BIOS	Type	AMI BIOS Release 7
	Special Features	Customizable defaults, silent boot, automatic config.
Operating Systems		Windows 98, Windows 2000, Windows NT®, Windows XP, Linux Qualification of real time and other operating systems subject to demand
Safety Compliance		Evaluated in accordance with UL1950
EMC Compliance		Evaluated in accordance with FCC Part 15 Class B

