MODELS 3513P
LOW COST 13-SLOT PCI/ISA
RACKMOUNT INDUSTRIAL CHASSIS

DOC# 2205

PCI/ISA CAPABILITY PROVIDED IN LITE INDUSTRIAL 20" DEEP CHASSIS

The 3513P chassis was designed exclusively to offer the advantages of the PICMG™ compliant Peripheral Component Interface (PCI) local bus.

This versatile low cost 19 inch rackmounted lite industrial chassis is integrated with a passive backplane configured with nine ISA slots, one dedicated SBC slot, and three PCI slots. The combination of the exceptional I/O performance of the PCI local bus (33MHz with a 32-bit datapath and a burst mode of 132MBytes/sec) and the low cost, ubiquitous ISA expansion bus is ideal for high performance data acquisition, telecommunications, and video/graphic applications.

CHASSIS AND POWER

Encased in a painted heavy-gauge steel chassis 7"H x 19"W x 20"D, the 3513P is equipped with an autoswitching 250-Watt power supply with an AC input voltage range from 90-264 VAC or a 48VDC 350-Watt extended input voltage range of 35-74 VDC servicing both U.S. and international power sources.

FLEXIBILITY/RELIABILITY

The 3513P chassis design allows easy top access to the single board computer and controller cards. The removable drive cage also makes servicing a snap. Front access is provided for two 5.25" x 1.63" or two 5.25" x 1.0" removable media devices and two 3.5" x 1.0" hard drives may be mounted internally. The industrial passive backplane design ensures maximum signal integrity and reduces mean time to repair (MTTR) to as little as 10 minutes.

This chassis offers the optimum in flexibility and durability. The passive backplane allows easy upgrading as system requirements change. The rear keyboard connector is routed along the bottom of the chassis to eliminate interference with boards mounted in the backplane. Dual knockouts for DB-9 and DB-25 connectors are located on the rear of the chassis to save I/O bracket space.

Each unit is dynamically burned in at 55°C and functionally tested prior to shipment.

KEY FEATURES

- Three PCI slots, one SBC slot, and nine ISA slots
- Front and rear keyboard connectors, CPU reset switch, hard disk activity LED
- 250-Watt auto-switching AC power supply; 350-Watt, 48 VDC power supply with extended input range (35-74 VDC)
- Two dual speed 45/90 CFM fans and one 35 CFM DC fan for positive pressure cooling of all cards and devices
- Built-in speaker, door latch, and power switch
- Two 5.25" removeable media devices and two 3.5" internal drive bays
- EMI/RFI-resistant four-layer passive backplane
- SBC and all other add-ins are standard plug-in cards, vertically oriented for easy access and optimum cooling
- Supports IBM PC and AT compatible plug-in cards
- Burned-in at 55°C (131°F) and system-tested before shipment
- One year warranty and complete documentation

Texas Microsystems, an ISO 9001 certified manufacturer, has been designing and manufacturing industrial computers and components since 1975. A founding member of PICMG, they developed the industry's first PC compatible computers using passive backplanes. The company offers a full line of rugged rackmount, benchtop, and mobile computer systems, CPU cards and add-on peripherals; and SPARC telecommunications/ internetworking servers. Texas Microsystems' products are manufactured in the USA specifically for industrial automation, computer telephony integration, and other mission critical, high reliability applications.

MODEL 3513P LOW COST 13-SLOT ISA/PCI RACKMOUNT INDUSTRIAL CHASSIS

SPECIFICATIONS

- **Physical:**
  - Dimensions - 7" H x 19" W x 20" D
    178mm H x 483mm W x 508mm D
  - Construction - Heavy-gauge steel, painted
  - Color - Texas Micro Beige, P/N 18831
  - Weight - 40 lbs., typical (18.14 Kg)
- **Regulatory:**
  - Safety - UL 1950
    cUL
    TUV GS MARK
  - RFI - FCC Certified Class A
    CE MARK to CISPR 22 Class B

- **Power:**

250-Watt (auto-switching)	350-Watt (48 VDC nominal)
+5 VDC @ 32.0 Amp	+5 VDC @ 50.0 Amp
+12 VDC @ 7.0 Amp (14 pk)	+12 VDC @ 8.0 Amp (12 pk)
-5 VDC @ 1.0 Amp	-5 VDC @ 4.0 Amp
-12 VDC @ 1.0 Amp	-12 VDC @ 2.0 Amp
Light industrial power supply MTBF greater than 75,000 hrs	Open frame industrial power supply MTBF greater than 100,000 hrs
Input Voltage -	**Input Voltage -**
90 to 264 VAC at 47 to 63 Hz	35 to 74 VDC

- **Thermal Cooling:**
  Two dual speed 45/90 CFM fans for backplane area and one 35 CFM power supply fan, positive pressure
- **Indicators and Controls:**
  Front Panel - (see-thru latchable door) System reset switch, Disk drive activity light, Power on/off switch
- **Expansion:**
  Nine ISAslots, one SBC slot, and three PCI slots
- **Disk Storage:**
  Two 5.25" x 1.63" or two 5.25" x 1.0" removable media devices, accessible behind door
  Two 3.5" x 1.0" internal fixed disk drives
- **Keyboard:**
  Standard 5 pin DIN AT connector on front and rear panel
- **Storage Temperature:**
  -20° to 70°C (-4.0° to 158° F)
- **Options:**
  Key Lock Kit

ENVIRONMENTAL	OPERATING	NON-OPERATING
Temperature	0° to 55°C (32° to 131°F)	0° to 70°C (32° to 158°F)
Humidity	5% to 95%, non-condensing	5% to 95%, non-condensing
Shock	5G @ 10ms duration	10G @ 10ms duration
Vibration	.5G @ 5 - 150 Hz	5G @ 5-150 Hz
Altitude	0 to 15,000 ft. (4,572 meters)	0 to 50,000 ft. (15,240 meters)

DESCRIPTION	MODEL
PCI/ISA, 250-Watt, (90 - 264 Volt)	**3513P-250W**
PCI/ISA, 350-Watt, (35 - 74 VDC)	**3513P-48**
Key Lock Kit	**KL1**
48VDC Power Input Connector	**48CON1**

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