



### ISA LOW COST 20" DEEP CHASSIS PROVIDES 14 SLOTS

Texas Micro Models 3514 and 3514S industrial chassis provide twice the capacity of standard PCs with their ISA 14-slot passive backplanes. These versatile 19" rackmounts are designed to meet the needs of users requiring extensive data acquisition and data processing capability.

Encased in a painted heavy-gauged steel chassis, 7" high and 20" deep, the Models 3514 and 3514S are equipped with a 250-Watt AC power supply or 350-Watt, 48VDC extended input range power supply. The power supplies are furnished for any international standard power source and equipped with a positive pressure filtration system with removable and washable front filter to protect against dirt and dust. The newly designed and more effective cooling system will keep the units running cool in the harshest environment. All cards are held firmly in place with a hold-down clamp to prevent loosening due to vibration and shock.

Whether your environment demands a full 14 AT slot terminated ISA backplane or 7 AT/7 AT unterminated ISA, these industrial passive backplane designs ensure maximum signal integrity and reduces mean time to repair (MTTR) to as little as 10 minutes. Additionally, the design decreases electrical noise at high speed and facilitates system expansion.

This chassis offers the optimum in flexibility and durability with two front accessible, removable media devices and two internal shock mounted hard drives. Standard product comes with front and rear active keyboard connectors and dual knockouts for DB-9 and DB-25 connectors which saves I/O slot bracket space. Rear keyboard connectors are mounted at the bottom of the chassis to eliminate any possible interference with boards mounted in the backplane.

### KEY FEATURES

- Model 3514 - front and rear keyboard connectors, CPU reset switch, hard disk activity LED
- Model 3514S - dual front and rear keyboard connectors, dual CPU reset switches, dual hard disk activity LEDs
- 250-Watt auto-switching AC power supply; 350-Watt, 48VDC 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

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.

# MODELS 3514 and 3514S HIGH CAPACITY 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  
TUV GS MARK  
cUL

RFI - FCC Certified Class A  
CE MARK to CISPR 22 Class B



### Power:

#### 250 Watt (auto-switching)

+5 VDC @ 32.0 Amp  
+12 VDC @ 7.0 Amp (14 pk)  
-12 VDC @ 1.0 Amp  
-5 VDC @ 1.0 Amp

Light industrial power supply  
MTBF greater than 75,000 hrs

#### Input Voltage-

95 - 264 VAC, 47 to 63 Hz

#### 350 Watt - 48 VDC

+5 VDC @ 50.0 Amp  
+12 VDC @ 8.0 Amp (12 pk)  
-12 VDC @ 4.0 Amp  
-5 VDC @ 2.0 Amp

Wide input range industrial  
power supply MTBF greater  
than 100,000 hrs

#### Input Voltage-

35 - 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 - System reset switch  
(see-thru Disk drive activity light  
latchable door) Power on/off switch

### Expansion:

3514 - 14-slot (16-bit AT) ISA passive backplane  
3514S - 7x7 (16-bit AT) ISA passive backplane

### Disk Storage:

Two 5.25" half-height removable media devices, accessible behind door  
Two 3.5" half-height internal fixed disk drives

### Keyboard:

Standard 5 pin DIN AT connector on front and rear panel

### 3514S:

Dual front and rear keyboard connectors  
Dual CPU reset switches  
Dual disk activity LEDs

### Options:

Key Lock Kit  
48 VDC Power Input Connector

## ENVIRONMENTAL

Temperature  
Humidity  
Shock  
Vibration  
Altitude

## OPERATING

0° to 55°C (32° to 131°F)  
5% to 95%, non-condensing  
5G @ 10ms duration  
.5G @ 5 - 150 Hz  
0 to 15,000 ft. (4,572 meters)

## NON-OPERATING

0° to 70°C (32° to 158°F)  
5% to 95%, non-condensing  
10G @ 10ms duration  
5G @ 5-150 Hz  
0 to 50,000 ft. (15,240 meters)



## ORDERING GUIDE

<b>3514-250</b>	ISA 115/230 VAC, 250 Watt (95 - 264V)
<b>3514-48</b>	ISA 48 VDC, 350 Watt (35 - 74 VDC)
<b>3514S-250</b>	7x7 Split ISA 115/230 VAC, 250 Watt (95 - 264V)
<b>3514S-48</b>	7x7 Split ISA 48 VAC, 350 Watt (35 - 74 VDC)
<b>KL1</b>	Key Lock Kit
<b>48CON1</b>	48 VDC Power Input Connector

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