



9301 Series

Benchtop Chassis

Description

The 9301 Series desktop or benchtop computer chassis combine small footprints with expansion capabilities equal to most rack mount systems. Three chassis sizes permit backplane sizes from six through fifteen slots in ISA or ISA/PCI (PICMG) configurations. You may also select a 9301 Series chassis for your Baby-AT or ATX motherboard.

Ordering Guide

9301 - [Insert Backplane Option] - [Insert Power Option]

Example: 9301-ATX

9301 chassis, ATX motherboard mounting, 300W 115/230 VAC

Backplane Options

8MB	Standard Baby-AT motherboard mounting
ATX	ATX motherboard mounting chassis hardware kit
06	Six-slot ISA backplane
06P	ISA/PCI backplane: 2 ISA slots, 1 dedicated CPU slot, 2 PCI slots
10	Ten-slot ISA backplane
10P	ISA/PCI backplane: 5 ISA slots, 1 dedicated CPU slot, 2 PCI slots
10P4	ISA/PCI backplane: 3 ISA, 1 CPU, 4 PCI
15	Fifteen-slot ISA backplane
15P	ISA/PCI backplane: 10 full-length ISA slots, 1 dedicated CPU slot, 1 full-length PCI slot, 1 half-length PCI slot

Features

- Durable, protective construction for benchtop applications
- 6, 10, and 15 slot backplane options using ISA, or ISA/PCI
- Baby AT or ATX motherboard mounting options
- 300W to 400W AC and -48VDC power options
- Up to 9 disk drives with vibration-dampened mounting



Ordering Guide (cont.) Power Supply Options

AC power options are 115/230VAC, 50/60Hz, four output. Standard options are 300W AC, ATX power supplies. Options below replace the standard selection.

Standard	300W
A4	400W (Only available with 15-slot chassis)
D4	300W, 48VDC mains

Note: D4 option not available on ATX chassis

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Chassis Features

Power Supplies

Both AC and DC power supplies are offered. The standard unit includes a 115/220VAC, 300W, universal power supply. This power supply includes a cooling fan that exhausts at the rear of the chassis. You may also select a 48VDC mains power supply.

Drive Bays

Each model provides at least two drive bays with front panel access. The six slot, ten slot, and Baby-AT models also have a third drive bay mounted below the other two for internal hard disk mounting. The fifteen slot and ATX chassis offers two 5.25-inch and two 3.5-inch bays with front panel access as well as additional mounting for up to five more internal 3.5-inch drives.

Chassis Cooling

In addition to the fan in the power supply module, the six slot model also includes a 45CFM cooling fan mounted at the front of the card cage. The Baby-AT motherboard and ten slot models have two 45CFM fans at the front of the card cage. The fifteen slot and ATX chassis provide three 45CFM fans to insure protective cooling for high intensity applications. The fans draw air into the chassis through a front accessible filter to provide forced air cooling and positive pressurization. The pressurization keeps dirt and airborne contaminants out of the chassis. The airflow is also directed to push clean air out through the drive area and prevent dirt from being sucked into the drive heads on removable media drives. The cooling air for the power supply is channeled separately to insure the card cage is not receiving pre-heated air. The filters are easily accessible from the front of the chassis without any tools so they can be periodically cleaned or replaced for efficiency.

Mounting

The basic chassis is a desktop or benchtop chassis with a relatively small footprint for placing in unobtrusive areas. For more rigorous requirements, the units may be mounted to the floor or to a bulkhead with mounting brackets that replace the rubber feet on the bottom of the chassis.

Front Panel

The front panel controls include the normal system operation controls as well as indicators of power supply operation and fixed disk activity. Additionally, there are two LED indicators for internal chassis temperature alarm and fan operation status. An internal sensing element continuously monitors the internal temperature and a second sensor is used to monitor the operation of the 45CFM fan(s) for operation.

Chassis Features (cont.) Rear Panel

The chassis rear panel provides knockouts for end user mounting of system connectors. Multiple knockouts are provided for a combination of DB9, DB25, and DIN connectors. The number and types of knockouts vary with the chassis size and backplane type. The system keyboard connector is also located at the rear panel.

Specifications

Specifications are for the power supply, chassis, and backplane. Choice of motherboard, CPUs, or other user-selected feature cards may alter the specifications. Operating altitude, temperature and power supply loading are interactive and affect the actual specifications according to application. Special backplanes and chassis paint colors are available on request. Consult the factory for a quotation to meet your requirements.

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Mounting

Benchtop, floor mount or wall mount with included brackets

Note: Do not mount the 9301-15 or 9301-ATX models to walls without proper strapping.

Backplane

9301-06x, 9301-10x, 9301-15x

Motherboard

9301-8MB, 9301-ATX

Bus

ISA or ISA/PCI

*Disk Drive Capacity***Front Access****-06, -8MB and -10 Models:**

One 3.5", one 5.25", shock mounted

-15 and -ATX Models:

Two 3.5", Two 5.25", shock mounted

Internal**-06x, -8MB and -10x Models:**

Single 3.5" drive bay, shock mounted

-15x and -ATX Models:

Up to five 3.5" low profile, shock mounted

*Cooling Fans***Front of card cage:****-06x:**

One 45CFM

-10x, -8MB

Two 45CFM

-15x, -ATX

Three 45CFM

Specifications (cont.) Controls, Indicators, and Connectors

Front panel indicators	Power on/off
	Disk activity
	Internal temperature warning
	Fan status warning
	Power supply status: +/-5VDC, +/-12VDC, +3.3VDC
Front panel controls	Power switch
	Speaker volume adjustment
	Reset switch
Keyboard: backplane	Rear panel DIN (AT) connector
Keyboard: motherboard	Dependent on motherboard selected

*Environment (AC Models only)**Operating*

Temperature	10 to 50°C
Humidity	8 to 90% RHNC
Altitude	10,000ft (3,048m) pressure altitude
Shock	10g, 3 axis
Vibration	1.5g, 3 axis

Storage

Temperature	-40 to +60°C
Humidity	8 to 90% RHNC

Agency Approvals

FCC Part 15, Class A
 UL recognized component
 CE Compliant 73/23/EEC, EMC 89/336/EEC

Product Photos

Figures 1–5 show top and rear views of the 9301 Series models.

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*Figure 1
Model 9301-06
Top View*



*Figure 2
Model 9301-10
Top View*



*Figure 3
Model 9301-15
Top View*



*Figure 4.
9301-06
Rear View*

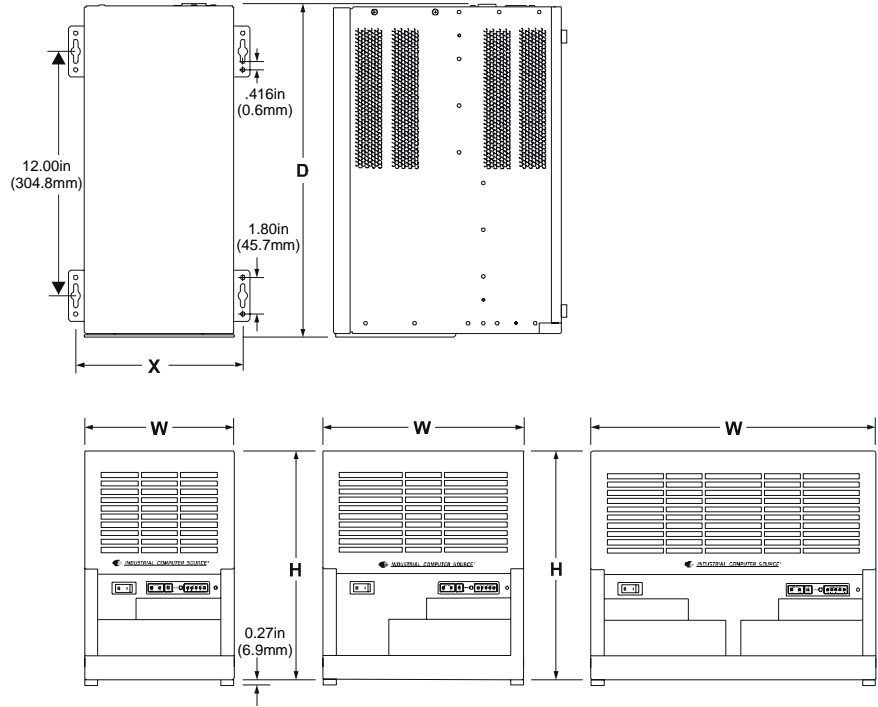


*Figure 5.
9301-15
Rear View*

Drawings and Dimensions

Figure 6 identifies the dimensions listed in Table 1.

Figure 6
9301 Dimensional Drawing



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Table 1
9301 Dimensions

Models	W	X	H	D	Weight
9301-06	7.3in 185.0mm	8.163in 207.34mm	11.19in 284.2mm	16.37in 415.8mm	21.0lb 9.26kg
9301-10	9.88in 251.0mm	10.743in 272.87mm	11.19in 284.2mm	16.37in 415.8mm	25.0lb 11.34kg
9301-8MB	9.88in 251.0mm	10.743in 272.87mm	11.19in 284.2mm	16.37in 415.8mm	25.0lb 11.34kg
9301-15	14.0in 356.0mm	14.863in 377.52mm	11.19in 284.2mm	16.37in 415.8mm	32.0lb 14.51lb
9301-ATX	14.0in 356.0mm	14.863in 377.52mm	11.19in 284.2mm	16.37in 415.8mm	32.0lb 14.51kg



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