

# 1600 Industrial Rack Mount PCs with Pentium 4 (Includes 1612, 1613, & 1614)



## FEATURES

- Rack mount 4U height and 3 sizes for various length expansion capabilities
- 14-slot passive backplane with up to 7 PCI & 3 ISA available expansion slots
- Intel Socket 478 2.4 GHz Pentium 4, 512 KB cache, 533 MHz system bus
- 4X AGP Video controller with 8 MB base and uses system RAM up to 64 MB
- Up to 1 GB DDR SDRAM
- USB (x2)
- Parallel Port
- One RS-232 port and one selectable RS-232/422/485 port
- Audio (In, Out, Mic)
- Dual 10/100 BaseT Ethernet ports
- 300 Watt AC power supply and Optional Dual Redundant Power Supply
- Lockable front door panel for preventing unwanted access
- PS/2 keyboard and mouse ports behind front door
- Three 5.25" front accessible drive bays
- Internal hard drive up to 40 GB
- Power-on switch and reset switch behind lockable front door, also includes HDD LED indicator
- 82 CFM cooling fan that dissipates heat in the chassis and easy-to-clean air filters in front door to prevent internal components from excessive dust
- Hold-down clamp for protecting add-on cards against vibration
- Preloaded Windows 2000, NT, XP, or No operating system

With heavy-duty steel construction, Xycom Automation's 1600 industrial rack mount PCs are available in a range of systems that are tough enough for plant floor use. The 1600's bring maximum flexibility, serviceability, and reliability, along with powerful features and rugged packaging, to the factory floor.

### Higher Performance

The Xycom 1600 Industrial PC's offer a 2.4 GHz Pentium 4 processor with 512 KB cache and running at 533 MHz system bus. With DDR SDRAM options up to 1 GB, the most demanding applications will have adequate memory.

### Flexible Architecture

You can configure and reconfigure Xycom Automation's industrial PC's for nearly any application through a wide variety of standard technologies. Our industrial PCs make it easy for end users and vendors to use cost-effective industry-standard components, storage options, and ISA/PCI expansion for application specific requirements. Storage options include CD-ROM, writable CD-ROM, ZIP, tape, removable hard and floppy drives. Available expansion up to 7 PCI & 3 ISA cards. See table on page 3 for summary of available lengths.

### Network and Device Connectivity

The 1600's built-in dual 10/100 BaseT Ethernet ports make it easy to connect to enterprise-wide networks as well as I/O systems. The dual USB ports, one RS-232, and one selectable RS-232/422/485 port make connection of peripheral devices quick and easy without additional cards.

### Multimedia Performance

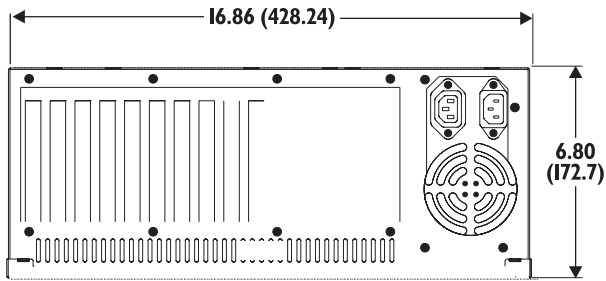
The onboard 4X AGP Video Controller with 8 MB base and up to 64 MB system RAM allows high resolution with full color and 3-D operation. The onboard Audio ports (In, Out, Mic) allows easy connection of speakers and microphones if needed.

### Power Supply Options

1600 systems can be configured with a standard 300 Watt A/C or dual redundant 300 Watt A/C.

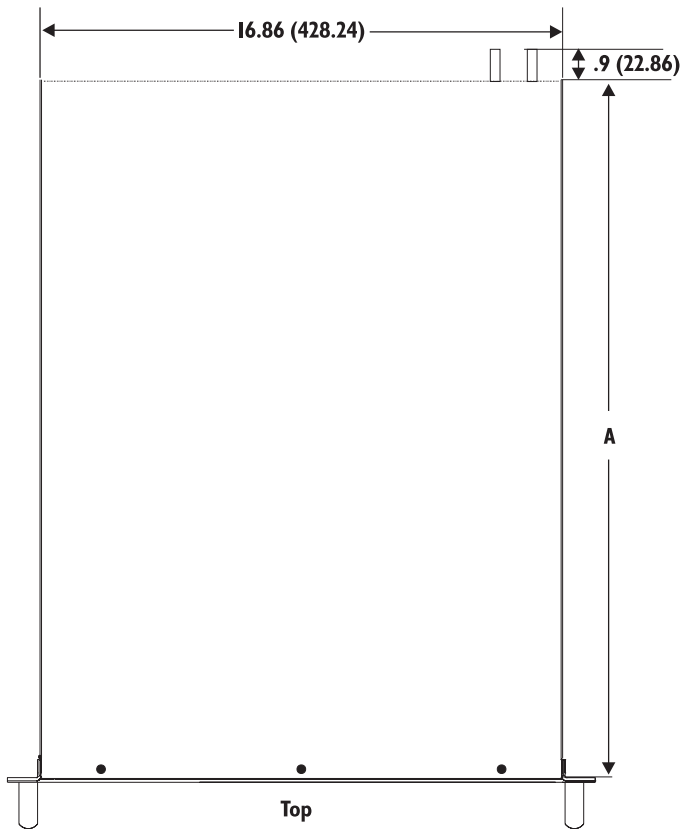


# PRODUCT MOUNTING AND DIMENSIONS

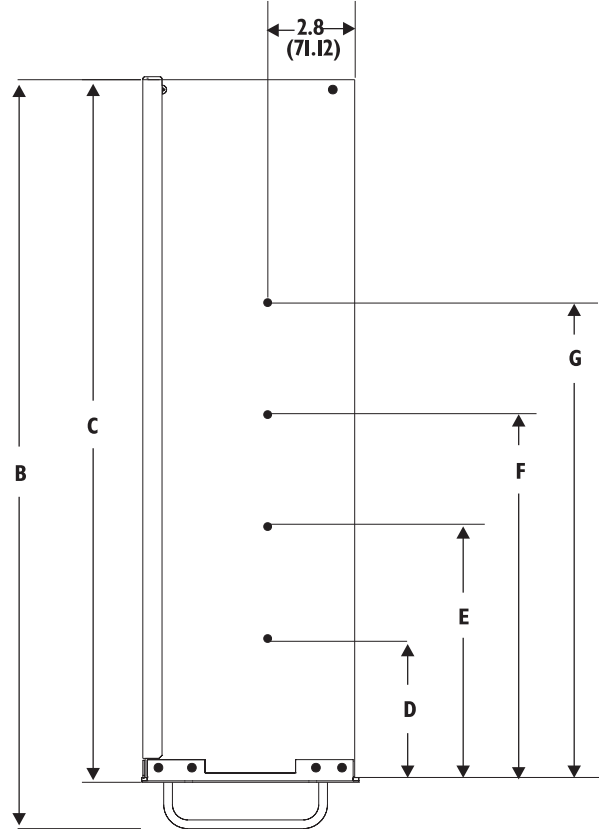


Rear

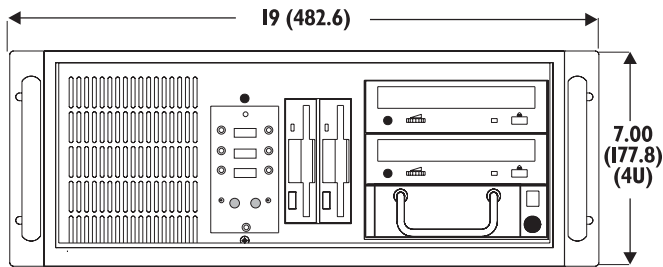
	A	B	C	D	E	F	G
1612	17.75 (450.85)	19.25 (488.95)	17.875 (454.025)	3.75 (95.25)	7.37 (187.198)	10.99 (279.146)	14.61 (371.094)
1613	19.75 (501.65)	21.25 (539.75)	19.875 (504.825)	4.50 (114.30)	8.12 (206.25)	11.74 (298.20)	15.36 (390.14)
1614	22.75 (577.85)	24.25 (615.95)	22.875 (581.03)	4.50 (114.30)	8.12 (206.25)	11.74 (298.20)	15.36 (390.14)



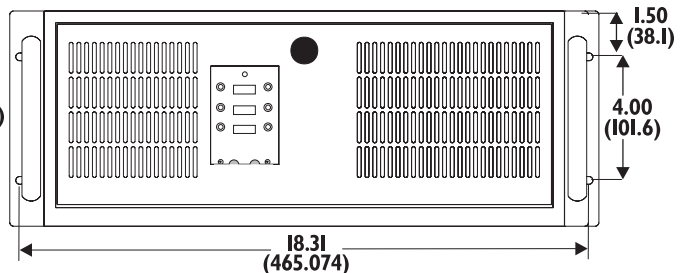
Top



Side



Front



Front with door closed

All dimensions are in inches (mm).

Optional slide rail and wall or shelf mounting kits available. See page 4.

# PRODUCT SPECIFICATIONS AND RATINGS

## Environmental

	Operating	Nonoperating
Thermal	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	5% to 90% RH, noncondensing
Shock <sup>a</sup>	2g peak acceleration, 11 msec duration	7.5g peak acceleration, 11 msec duration
Vibration 5-2000 Hz	.5g acceleration	.081" peak to peak displacement 2g maximum acceleration
Altitude <sup>b</sup>	Sea level to 15,000 ft.	Sea level to 50,000 ft.

<sup>a</sup>Mounted by the flange only (not rail mounted).

<sup>b</sup>Consistent with internal component specifications.

## Cooling fan capacity<sup>c</sup>

**82 CFM with dust filters**

<sup>c</sup>Does not include power supply fans

## Electrical

Power Supply	300 W AC	2 x 300 W AC Redundant
Rated input	115 - 230V AC, autoranging, 50-60 Hz, 7.0A (maximum) @ 115V, 3.0A (maximum) @ 230V	115 - 230V AC, autoranging, 50-60 Hz, 7.0A(maximum) @ 115V, 3.0A (maximum) @ 230V

## Unit Weight

48.2 lbs (23 kg)

## Regulatory Compliance

### CE

- EN 55022
- EN 50082-2
- EN 60950

### FCC

- 47 CFR, Part 15, Class A

## Safety Agency Approvals

### UL

- UL 1950

### cUL

- CSA-C22.2, #950



## Available Expansion

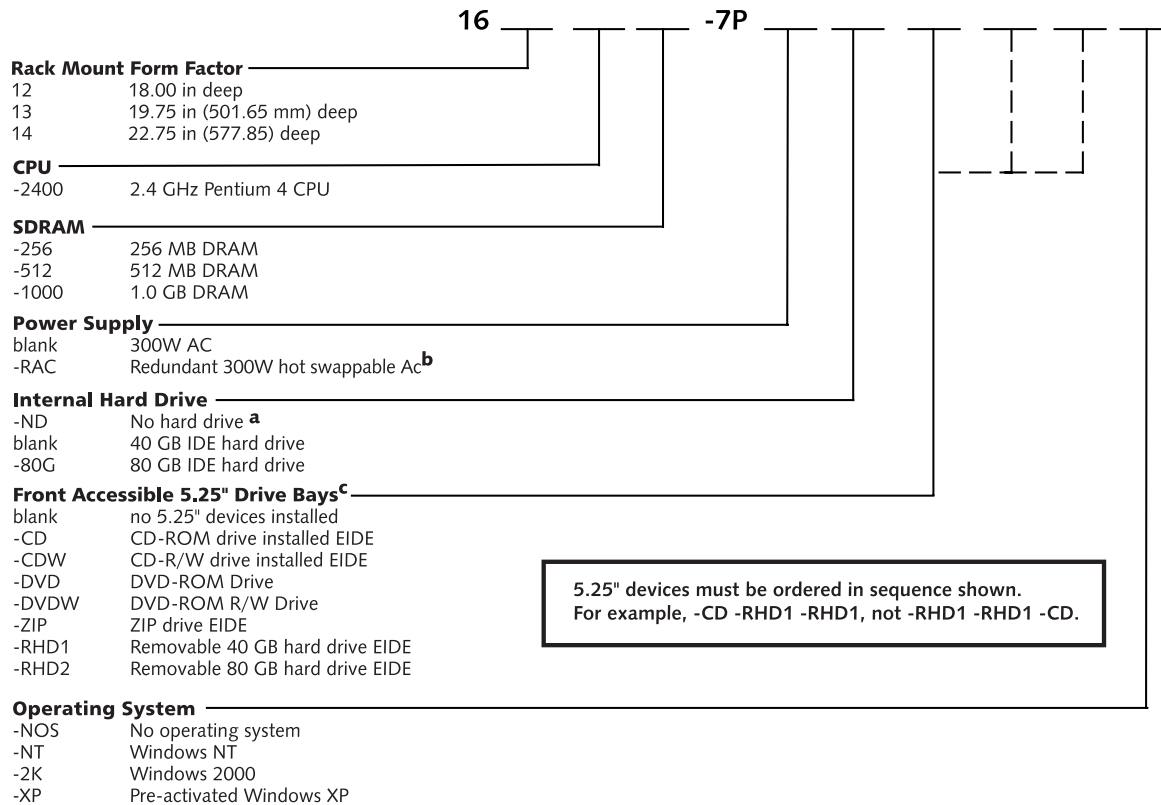
Model	Available ISA Expansion Slots			Available PCI Expansion Slots			Total Available Slots
	Full-length	3/4-length	1/2 length	Full-length	3/4-length	1/2 length	
1612	3	0	0	1	2	4	10
1613	3	0	0	1	6	0	10
1614	3	0	0	4	3	0	10

# ORDERING INFORMATION

To create an order number, follow the conventions defined by the example order numbers and product configurations.

## Example Order Number

Order Number	Description
<b>1612-2400-256-7P-2K</b>	A 1612, 1613, or 1614 series industrial rack mount PC with 2.4 GHz Intel Socket
<b>1613-2400-256-7P-2K</b>	478 Pentium 4, 512 KB cache, 533 MHz system bus processor, 256 MB DDR SDRAM,
<b>1614-2400-256-7P-2K</b>	Internal 20 GB hard drive, preloaded with Windows 2000 and 4X AGP video controller



5.25" devices must be ordered in sequence shown.  
For example, -CD -RHD1 -RHD1, not -RHD1 -RHD1 -CD.

<sup>a</sup>Must select at least one EIDE hard drive (-RHD1 or -RHD2). <sup>b</sup>Only available on 1613 & 1614  
<sup>c</sup>When ordering 5.25" drive bay devices and no operating system, all required drivers will not be loaded and devices will not function properly.

**Important Notice for XP configurations:** Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of this computer, or may be completed by Internet or telephone (toll charges may apply).

## Accessories

Order Number	Description
<b>1600-RMS</b>	Rack mount slide rail kit. Sold separately
<b>1600-WMB</b>	Wall or shelf mount bracket. Sold separately.

The I 600 Industrial PC carries a two-year warranty on parts and labor. Extended warranties are available.

Xycom Automation, Inc.  
Phone: 734-429-4971 Fax: 734-429-1010  
<http://www.xycom.com>

**Customer Support Hotline:**  
**734-944-0482**

