

# 1546 Heavy-Duty Industrial PC

## without Integrated Display

DS-154600(A)

### FEATURES

- Intel® Celeron® M 1.3 GHz, 512 cache, 400 MHz system bus (optional Pentium® M 2.0 GHz, 2M cache, 533 MHz system bus)
- Up to 2 GB DRAM (512 MB standard)
- 40 GB minimum Serial ATA hard drive (optional dual hard drives)
- 4X AGP graphics with 32 MB video memory (shared with system memory)
- Four available expansion slots:
  - ♦ One (8.0" max.) PCI expansion slot;
  - ♦ Two (9.0" max.) PCI expansion slots;
  - ♦ One (9.0" max.) PCI or ISA expansion slot
- 10/100, and 10/100/1000 BaseT Ethernet
- 4 USB 2.0 compliant ports (one additional 1.1 compliant port on front of KPM units)
- Three Serial, one Parallel, and one Video port
- Rear accessible Type I/II CompactFlash socket
- CD-ROM (optional CD-R/W with DVD-read-only, DVD-R/W, and floppy)
- UL, cUL, CE approvals
- UL listed for hazardous locations: Class I Division 2, Groups A, B, C, D; Class II Division 2, Groups F and G
- Windows® XP or 2000 operating systems
- 100-240 VAC power supply
- 2-year warranty included



*Xycom Automation's newest generation of industrial PCs are designed and tested for the tough environments required for plant floor use. Our standard PC configurations meet the strict specifications required for use in hazardous locations and Europe's CE mark. Based on CPU boards designed specifically for industrial automation, these systems provide the capabilities required by demanding applications. With an installed base of over 300,000 systems, our industrial PC products are successfully applied in manufacturing and process environments world-wide.*

### Higher Performance, Lower Power

The 1546 utilizes an Intel mobile processor providing superior processing power while utilizing half the wattage of a comparable Pentium 4 processor. The optional Pentium M 2.0 GHz processor (2 M CACHE & 533 MHz system bus) outperforms a desktop Pentium 4 2.4 GHz (512 K CACHE & 533 MHz bus) while utilizing less than half the wattage. The increased processing power with less heat generation makes the 1546 ideal for most factory automation applications requiring a NEMA enclosure. Less wattage input into the system results in less temperature rise in the enclosure. With less temperature rise the maximum ambient operating temperature is more easily

maintained, possibly without the need for expensive enclosure cooling devices.

### Superior Video Performance

The on-board 4X AGP graphics controller defaults to 4 MB system RAM to allow resolutions up to 1280 x 1024. In addition the 1546 automatically shares up to 32 MB system RAM to allow full 32-bit color depth and fast 3D rendering.

### Fits Your Needs

The 1546 can be configured many different ways. With four available expansion slots many cost effective, industry standard options are easily integrated. The optional dual hard drive, externally accessible

CompactFlash, or RAID-enabled configuration provides the storage solution you require. Additionally the CD-ROM can be upgraded to CD-R/W or DVD-R/W providing even more storage and backup options.

### Meets High Standards

To survive on the plant floor the 1546 meets FCC, UL, cUL, and European CE mark requirements for industrial automation equipment. Xycom Automation Industrial PCs lead the industry in reliability, service, and support with an optional five year warranty available.



## SERVICEABILITY

With the cover removed expansion cards are easily installed in the 1546 without cumbersome cables to contend with.



## MOUNTING OPTIONS



Shelf Mounting



Wall Mounting

## EASILY REPLACEABLE HARD DRIVE



The 1546 unit has incorporated a simple to access hard drive mount. Simply loosen 2 captive screws and extract the hard drive. No cables to install or connect. Simply plug in the new drive. Optional dual hard drives or RAID-enabled configurations are also available.

## STORAGE OPTIONS

The 1546 offers several data storage options. The standard unit contains a single Serial ATA hard drive. Dual hard drives are optional, as is a RAID-enabled configuration. Also, the externally accessible Type I/II CompactFlash can be ordered with the operating system pre-loaded for a solid state alternative. The 1546 offers a read-only CD-ROM, a CD-R/W with DVD-Read capability, a DVD-R/W, or a floppy for your choice of removable media drives. In addition, the 4 USB 2.0 ports can be utilized to add many commercially available external devices.

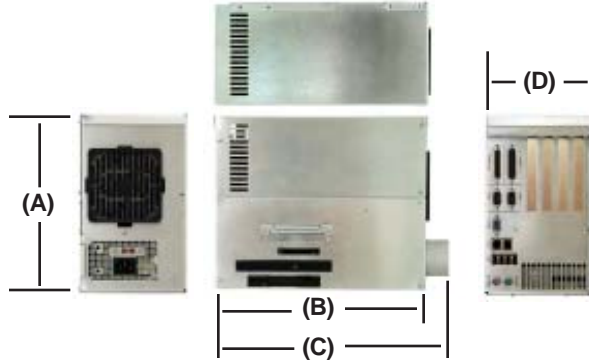
Externally Accessible  
CompactFlash™



# PRODUCT MOUNTING AND DIMENSIONS

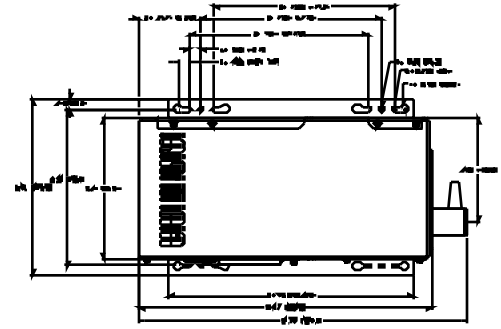
## 1546 Unit Dimensions

<b>Model</b>	<b>1546</b>
<b>Processors</b>	Intel® Celeron® M 1.31 GHz or optional Pentium M
<b>Preloaded OS</b>	Windows® XP or Windows® 2000 (multi-language)
<b>Expansion</b>	One (8.0" max.) PCI, two (9.0" max.) PCI, and one (9.0" max.) PCI or ISA

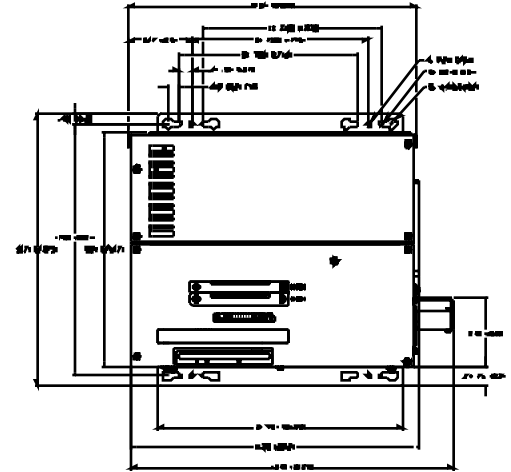


<b>Model</b>	<b>1546</b>
<b>Height (A)</b>	9.24" (234.7 mm)
<b>Width (B)</b>	11.47" (291.3 mm)
<b>Width (C)</b>	12.74" (324.9 mm)
<b>Depth (D)</b>	5.75" (146.1 mm)
<b>Weight</b>	13 lbs (7.2 kg)

### Shelf Mounting



### Wall Mounting



# PRODUCT SPECIFICATIONS

## Environmental

	Operating	Nonoperating
<b>Thermal</b>	0°C to 50°C	-20°C to 60°C
<b>Humidity</b>	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
<b>Shock <sup>a</sup></b>	15g peak acceleration, 11 msec duration	30g peak acceleration, 11 msec duration
<b>Vibration</b>	.006" peak to peak displacement	.015" peak to peak displacement
<b>5-2000 Hz <sup>a</sup></b>	1.0g maximum acceleration	2.5g maximum acceleration
<b>Altitude <sup>b</sup></b>	Sea level to 10,000 ft.	Sea level to 40,000 ft.

<sup>a</sup> These values are with solid state hard drives and not rotating media drives.

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

## Electrical

<b>Power Supply</b>	250 Watt AC
<b>AC Power</b>	100-240 VAC, 50-60 Hz, 74 Watt nominal power <sup>†</sup>
<b>Available</b>	+3.3V 4.0A maximum
<b>Expansion</b>	+5V 4.0A maximum
<b>Power</b>	-5V 160mA maximum
	+12 3.0A maximum
	-12 240mA maximum

<sup>†</sup> Nominal Power is measured for a base configuration only. Any additional expansion and/or devices will increase the input power required.

# PRODUCT RATINGS

## Compliance

### Regulatory Compliance:

- CE**
- EN 55022: Class A
  - EN 61000-6-2
  - EN61000-3-2, Class A
  - EN61000-3-3
  - IEC 60950-1

- FCC**
- 47 CFR, Part 15, Class A



Product certification documentation available at: [www.xycom.com/certifications](http://www.xycom.com/certifications)

### Safety Agency Approvals:

- UL**
- UL 508 Listed
  - UL 1604 Listed <sup>a</sup>
- CUL**
- CSA-C22.2, #142 Listed
  - CSA-C22.2, #213 Listed <sup>a</sup>

<sup>a</sup> Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Temp. Code: T6

## 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
1546-1300-512-CD-XP	1546 Industrial "Node" PC, Intel® Celeron® M 1.3 GHz CPU (512K Cache, 400 MHz bus), 512 MB DRAM, 40 GB minimum Serial ATA Hard Drive, Rear Access Type I/II CompactFlash socket, Windows XP, On-board 10/100 and 10/100/1000 BaseT Ethernet and USB, one (8.0" max.) PCI, two (9.0" max.) PCI and one (9.0" max.) PCI or ISA expansion slots.

**1546** -

- CPU**
- 1300 Celeron M 1.3 GHz, 512K Cache, 400 MHz bus
  - 2000 Pentium M 2.0 GHz, 2M Cache, 533 MHz bus

- DRAM**
- 512 512 MB DRAM
  - 1000 1 GB DRAM
  - 2000 2 GB DRAM

- Internal Hard Drive**
- Blank Internal 40 GB (min.) Serial ATA Hard Drive
  - ND No Internal Hard Drive <sup>a</sup>
  - DHD Dual Internal 40 GB (min.) Serial ATA Hard Drives

- Rotating Media Drives**
- CD Rear Access CD-ROM
  - Blank No Rear Access CD-ROM
  - CDW Rear Access CD-R/W & DVD-Read only <sup>b</sup>
  - DVDW Rear Access Read/Write DVD-ROM Drive <sup>b</sup>

- Floppy**
- Blank No Floppy Installed <sup>c</sup>
  - F Rear Access Floppy Installed

- Externally Accessible Compact Flash**
- Blank Nothing Installed
  - 4GCF 4 GB CompactFlash Installed <sup>d</sup>

- Operating System**
- XP Pre-Activated Windows XP Professional
  - 2K Windows 2000 (multi-language)
  - NOS No Operating System loaded

<sup>a</sup> 4GB CompactFlash option must be chosen when selecting the -ND option. <sup>b</sup> When ordering CDW or DVDW options and No Operating System all required drivers will not be loaded and devices will not function properly. <sup>c</sup> When ordering a unit with no floppy operating system recovery will not be possible without adding an external USB floppy drive. <sup>d</sup> When ordering CompactFlash and no internal hard drive the operating system will be loaded on the CompactFlash. This is not recommended when applications are storing data.

**Warranty Information**  
The 1546 series carries a two-year parts & labor warranty.

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).

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

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



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