

# 3612 Industrial PCs

## 12.1" LCD Flat Panel Display

DS-361200(C)



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 200,000 systems, our industrial PC products are successfully applied in manufacturing and process environments world-wide.

### FEATURES

- 12.1" SVGA TFT color flat panel
- Choice of operator input options:
  - ♦ Analog resistive touchscreen only, or
  - ♦ Reprogrammable keypad with integrated mouse, or
  - ♦ Combination of keypad, mouse & touchscreen
- Intel® Celeron® and Pentium® III options up to 1.26GHz
- Up to 512 MB DRAM
- 10/100 Base T Ethernet port
- RS-232 port
- RS-232 or RS485 port
- PS/2 keyboard and mouse port
- USB port
- VGA port (supports simultaneous display with additional monitor)
- Four available expansion slots:
  - ♦ Three ¾-length (1 PCI, 1 ISA, and 1 either ISA or PCI)
  - ♦ One ½-length PCI
- DOC 2000 socket
- CD-ROM and Floppy with optional CD-R/W upgrade
- Easily removable 20 GB hard drive
- Secondary IDE Drive options (choice of one):
  - ♦ Dual hard drives
  - ♦ Externally accessible CompactFlash™ options up to 512MB
  - ♦ External Drive bay connector for 9000-XBAY
- NEMA 4/4x/12 and IP65 front panels
- UL listed for hazardous locations: Class I Division 2, Groups A, B, C, D; Class II Division 2, Groups F and G (pending on 3612KPM)
- Pre-loaded with MS-DOS®, Windows 98®, Windows® NT, or Windows® 2000 (with multi-language support), or Windows® XP

### Easy-to-Read Display

The 3612 units utilize a bright TFT 12.1" LCD flat panel display. Complex operations and screens can be displayed with clarity. SVGA (800 x 600) resolution is recommended. However, the 3612 units will display XGA (1024 x 768) resolution with some clarity degradation. The AGP graphics defaults to 4MB video RAM and will automatically share RAM with the system to allow full 32-bit color depth.

### Higher Performance

With up to 1.26GHz Pentium III processors available, the 3612 units can drive the most demanding applications. The 3612 units ship standard with an 850 MHz Celeron with 128K cache running

at 100 MHz bus. Optional 1.0 GHz with 256K cache and 1.26GHz with 512K cache, both running at 133 MHz bus, are available options.

### Fits Your Needs

The 3612 units can be configured many different ways. With four available expansion slots (three ¾-length ISA/PCI, one ½-length PCI), many cost effective, industry standard options are easily integrated. The optional dual hard drive, externally accessible Compact Flash, or external drive bay connector provide the storage solution you require. Additionally the CD-ROM can be upgraded to a read/write drive so that even more storage and/or backup options are available. The

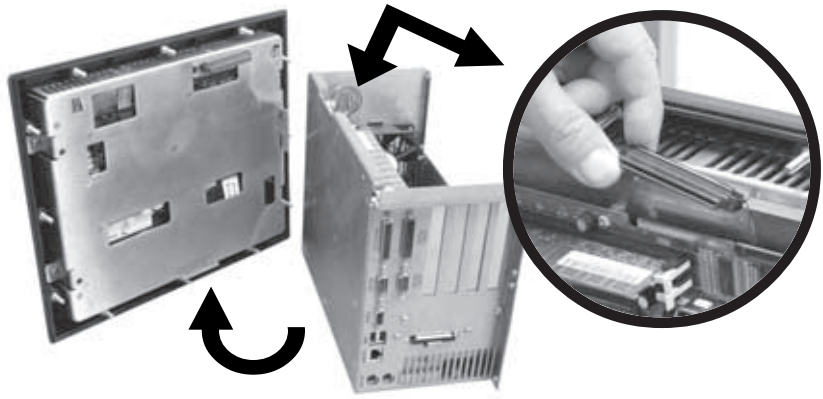
optional 9000-XBAY allows you to externally mount any two IDE devices without requiring a power supply or unreliable cabling.

### Meets High Standards

To survive on the plant floor, the 3612 units meet NEMA 4/4x/12, IP65, FCC, UL, cUL, and European CE mark requirements for industrial automation equipment. Xycom Automation leads the industry in reliability, service, and support with an optional five year warranty available.

## SERVICEABILITY

The 3612 CPU section easily removes from the front panel and display unit without having to detach the front panel from the NEMA enclosure. One connector is used to attach the entire front panel. The rear CPU section can be replaced with another very quickly. With the cover removed expansion cards are easily installed without cumbersome cables to contend with.



## EASILY REPLACEABLE HARD DRIVE



The 3612 units have incorporated an easy access hard drive mount. Simply remove 2 screws and extract the hard drive. Remove the metal bracket and retention spring, attach it to the new hard drive and install your replacement.

## SECONDARY DRIVE OPTIONS

The 3612 units have several options for the secondary IDE port on the CPU. The hard drive can be replaced with a dual hard drive unit. If solid state storage media is desired than an externally accessible Type I or Type II CompactFlash™ option is available. If a DVD, Tape backup, or other IDE device is required than an external connector for a remote drive bay can be ordered.



External Bay Connector



Dual 2.5" Hard Drives



Externally Accessible CompactFlash™

## REMOTE DRIVES

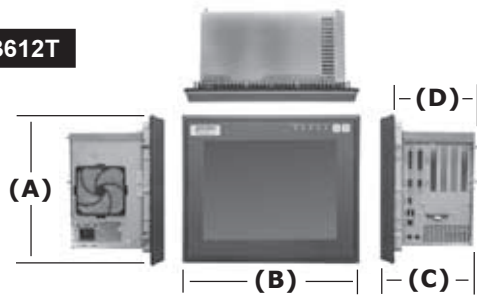


With the external bay connector (shown above) installed, the 9000-XBAY\* can be utilized. The 9000-XBAY allows any two IDE devices to be installed and connected to the 3612 unit via a single cable. When using a 9000-XBAY with the 3612 units, the internal power supply option must be chosen when configuring the 9000-XBAY. The 9000-XBAY can be mounted on a shelf, behind a panel, or used with a NEMA door (optional).

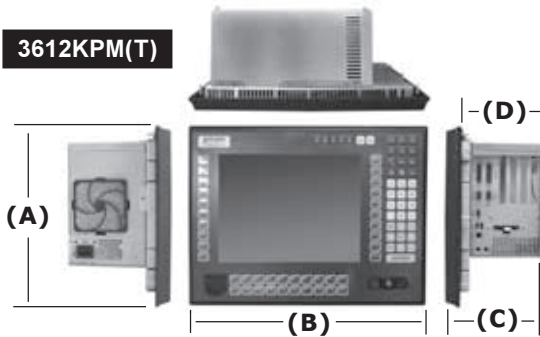
\*9000-XBAY sold separately.

## PRODUCT MOUNTING AND DIMENSIONS

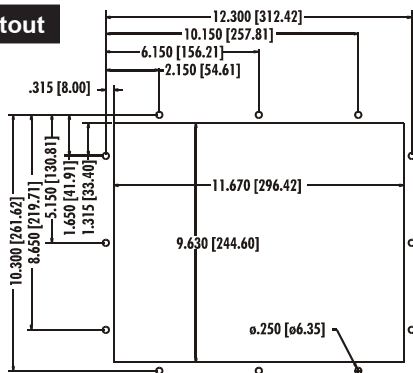
### 3612T



### 3612KPM(T)



### 3612T Cutout



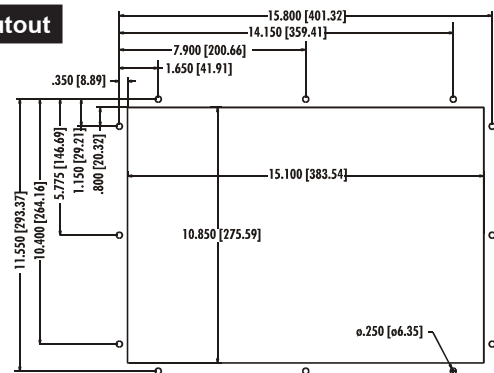
### 3612 Unit Dimensions

Model	3612T	3612KPM(T)
Height (A)	11.20" (279.4 mm)	12.45" (316.2 mm)
Width (B)	13.20" (330.2 mm)	16.70" (424.2 mm)
Depth (C)	7.4" (187.0 mm)	7.4" (187.0 mm)
Mounting Depth (D)	6.4" (161.5 mm)	6.4" (161.5 mm)
Weight	16 lbs (7.2 kg)	17 lbs (7.7 kg)

### 3612 Configurations

Display	12.1" LCD color display, 800 x 600 (SVGA), 300 nits
Operator Input	Analog resistive touchscreen (3612T) Reprogrammable 74-position keypad and industrial mouse (Touchscreen optional) (3612KPM(T))
Processors	Intel® Celeron, Pentium® III
Preloaded OS	MS-DOS®, Windows NT®, Windows® 98, 2000
Expansion	One ISA, two PCI, one shared (ISA or PCI)

### 3612KPM(T) Cutout



## PRODUCT SPECIFICATIONS AND RATINGS

### Environmental

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

Power Supply	90 watt AC
AC Power	100 - 132/200 - 240 V AC, switchable, 50/60 Hz, 4.0 Amp (maximum)
Available Expansion Power	26 watts maximum +5V@3.4A <sup>a</sup> +3.3V@1.58A <sup>a</sup> -5@160mA <sup>b</sup> -12@160mA <sup>b</sup> +12@0.58A

<sup>a</sup> +5V and +3.3V cannot exceed 17 watts.

<sup>b</sup> -5V and -12V cannot exceed 2 watts.

## PRODUCT SPECIFICATIONS AND RATINGS (continued)

### Compliance

#### Regulatory Compliance

- CE
  - EN 55022: Class A
  - EN 61000-6-2
  - EN 60950
- FCC
  - 47 CFR, Part 15, Class A

#### Safety Agency Approvals

- UL
  - UL 60950
  - UL 1604
- CUL
  - CSA-C22.2, #950
  - CSA-C22.2, #213

#### Front Panel

- NEMA 4/4X/12, IP65



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

## ORDERING INFORMATION

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

### Example Order Number

Base Order Number	Description
<b>3612T-850-256-CDF</b>	3612T with Touchscreen front panel, Socket 370 Intel Celeron 850 MHz CPU (128K Cache, 100 MHz bus), 256 MB DRAM, 20 GB minimum Hard Drive, Rear Access CD-ROM and Floppy, MS-DOS, On-board 10/100 Ethernet and USB, two PCI, one ISA, and one PCI or ISA 3/4-length available expansion slots.

3612

#### Operator Input

- T 12.1" TFT with touchscreen
- KPM 12.1" TFT with keypad and industrial mouse
- KPMT 12.1" TFT with keypad, mouse, and touchscreen

#### CPU

- 850 Celeron 850 MHz, 128k Cache, 100 MHz Bus
- 1000 Pentium III 1.0 GHz, 256k Cache, 133 MHz Bus
- 1260 Pentium III 1.26 GHz, 512k Cache, 133 MHz Bus

#### DRAM

- 256 256 MB DRAM
- 512 512 MB DRAM

#### Internal Hard Drive

- Blank Internal 3.5" 20 GB minimum EIDE hard drive
- ND No internal hard drive<sup>a</sup>
- DHD Dual 2.5" 10 GB minimum hard drives

#### Rotating Media Devices

- F Rear Access Floppy
- CDF Rear Access Floppy and CD-ROM
- CDWF Rear Access Floppy and Read/Write CD-ROM

#### Externally Accessible IDE<sup>b</sup>

- blank Nothing Installed
- CF Externally Accessible Type I/II CompactFlash site
- 128CF Externally Accessible Type I/II CompactFlash site with 128 MB
- 256CF Externally Accessible Type I/II CompactFlash site with 256 MB
- 512CF Externally Accessible Type I/II CompactFlash site with 512 MB
- XBAY Connector for use with 9000-XBAY or 9000-XBAY-FP

#### Operating System

- Blank MS-DOS
- 98 Windows 98<sup>c</sup>
- NT Windows NT<sup>c</sup>
- 2K Windows 2000 (multi-language)<sup>c</sup>
- XP Pre-Activated Windows XP<sup>c</sup>

<sup>a</sup> 128CF, 256CF, or 512CF (with DOS) option must be chosen when selecting the -ND option.

<sup>b</sup> Externally accessible options are not available when choosing -DHD option.

<sup>c</sup> Windows operating systems are only available when Internal Hard Drive or -DHD options are chosen.

#### 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).

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