XYCOM AUTOMATION INDUSTRIAL COMPUTERS

product datasheet

4700 Series RAID-Enabled Industrial PCs DS-470000_RAID(C)



The most susceptible component of any Industrial PC is the hard drive. Some sources suggest shock mounting the hard drive; unfortunately, shock mounting may cause the hard drive to become more vibration-sensitive at certain frequencies. The most common method to overcome a susceptibility to vibration is through the use of solid-state storage media or the use of redundant hard drives.

Many of the Xycom brand Heavy-Duty Industrial PCs offer solid-state media in the form of CompactFlash or solid state hard drives. While many storage sizes are available, the cost increases drastically as the required size increases.

Another approach is to use RAIDenabled PC. RAID stands for Redundant Array of Independent Disks. In essence, RAID is two or more hard disks attached to the same controller, either SCSI or IDE. The RAID controller can "stripe" or "mirror" data.

Striping (RAID 0) is used to read and write to many disks at once to increase hard drive performance, while Mirroring (RAID 1) allows the same data to be available on two drives. Other RAID levels (2 and higher) are also available. These higher levels increase the number of disks being utilized.

In a RAID 1 system there is a primary and a secondary hard drive.

The RAID controller writes to both drives but only reads from the primary drive. If the RAID controller detects any problem with the primary drive it switches over to the secondary drive (which has an exact copy of all data on the primary drive) and utilizes it as the primary drive. The PC will continue to run allowing time to change the faulty hard drive without interruption in machine operation. Once the drive has been replaced the RAID controller automatically begins creating a mirror copy of the good drive. This process runs in the background while the machine operation is maintained. Once this new drive is operational it is recommended that the other drive be scheduled for replacement.

The 1547 and 4715 products can be factory configured with a RAID 1 implementation. These RAID-enabled configurations come standard with two easily removable Serial ATA hard drives and a built in RAID control-

FEATURES

- 15.0" XGA TFT color flat panel / or No Display options
- Choice of operator inputs:
- Reprogrammable keypad with integrated mouse (KPM);
- Touchscreen only (T);
- Combination of all 3 (KPMT);
- Or / No optional input (1547)
- 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)
- Dual 80 GB minimum Serial ATA hard drive (optional dual hard drives)
- RAID-Enabled (Level 1)
- 4X AGP graphics with 32 MB video memory (shared with system memory)
- Four full length expansion slots:
- Three PCI expansion slot;
- One PCI or ISA expansion slot
- ■10/100, and 10/100/1000 BaseT Ethernet
- 4 USB 2.0 compliant ports (1.1 compatible port on front of KPM units)
- Three Serial, one Parallel, and one Video port
- Rear accessible Type I/II CompactFlash™ socket
- DVD-R/W, and floppy drives
- NEMA 4/4x/12 front panel
- 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 Windows 2000 operating systems
- 100-240 VAC power supply (optional 24 VDC)
- 2-year warranty included

ler. This creates a more robust, fault tolerant system to help maintain your machine operation and production. When utilized correctly a RAID-enabled industrial PC can

a RAID-enabled industrial PC can greatly improve the overall reliability of an application.

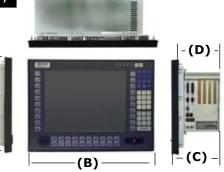


(A) | - (D) - (C) - (C) -

4715 Unit Dimensions

| Model | 4715T | 4715KPM(T) |
|------------|-------------------|-------------------|
| Height (A) | 13.97" (354.8 mm) | 13.97" (354.8 mm) |
| Width (B) | 19.00" (482.6 mm) | 19.00" (482.6 mm) |
| Depth (C) | 7.64" (194.0 mm) | 7.64" (194.0 mm) |
| Mounting | | |
| Depth (D) | 6.60" (167.6 mm) | 6.60" (167.6 mm) |
| Weight | 27 lbs (12.4 kg) | 27 lbs (12.4 kg) |

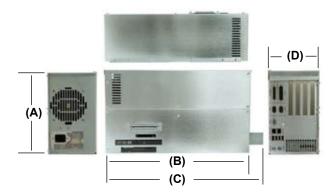
4715KPM(T)



4715 Unit Configuration

| Display | 15.0" LCD color display, 1024 x 768 (XGA) |
|-------------------|--|
| Operator Input | Analog resistive touchscreen (4715T) Reprogrammable keypad and industrial mouse (4715KPM (T)) |
| Processors | Intel® Celeron® M 1.3 GHz, 512 cache, 400 MHz system bus (optional Pentium® M 2.0 GHz, 2M cache, 533 MHz system bus) |
| Preloaded OS | Windows® XP or Windows® 2000 (multi-language) |
| Expansion | Three PCI full length expansion slots, One PCI or ISA full length expansion slot |

1547



1547 Unit Dimensions

| Model | 1547 |
|------------|--------------------|
| Height (A) | 9.18" (233.17 mm) |
| Width (B) | 16.16" (410.46 mm) |
| Width (C) | 17.18" (436.37 mm) |
| Depth (D) | 5.48" (139.2 mm) |
| Weight | 18 lbs (8.2 kg) |

1547 Unit Configuration

| Model | 1547 |
|--------------|---|
| Processors | Intel® Celeron® M 1.31 GHz or optional Pentium M |
| Preloaded OS | Windows® XP or Windows® 2000 (multi-language) |
| Expansion | Three full length PCI and One full length PCI or ISA expansion slot |

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 ^a | 15g peak acceleration, 11 msec duration | 30g peak acceleration, 11 msec duration |
| Vibration 5-2000 Hz ^a | .006" peak to peak displacement 1.0g maximum acceleration | .015" peak to peak displacement 2.5g maximum acceleration |
| Altitude ^b | Sea level to 10,000 ft. | Sea level to 40,000 ft. |

^a These values are with solid state hard drives and not rotating media drives.

Electrical

| | 4715/1547 AC | 4715/1547 DC | |
|--------------|--------------------------------|---|--|
| Power Supply | 250 Watt AC | 24 VDC | |
| | 100-240 VAC, 50-60 Hz | 19-36 VDC | |
| | 4715 - 88 Watt nominal power † | 4715 - 68 Watts nominal power [†] | |
| | 1547 - 74 Watt nominal power † | 1547 - 54 Watts nominal power † | |
| Available | +3.3V 4.0A maximum | +3.3V 4.0A maximum | |
| Expansion | +5V 4.0A maximum | +5V 4.0A maximum | |
| Power | -5V 160mA maximum | -5V 160mA maximum | |
| | +12 3.0A maximum | +12 3.0A maximum | |
| | -12 240mA maximum | -12 240mA maximum | |

[†] Nominal power is measured for a base configuration only. Any additional expansion and/or devices will increase the input power required.

4715 Compliance

Regulatory Compliance CE

EN 55022: Class A

■ EN 61000-6-2

EN 61000-3-2, Class A

EN 61000-3-3

■ IEC 60950-1

FCC

47 CFR, Part 15, Class A

Safety Agency Approvals CUL

■ UL 508 Listed

■ UL 1604 Listed ^a

■ CSA-C22.2, #142 Listed

■ CSA-C22.2, #213 Listed ^a

1547 Compliance

Regulatory Compliance CE

EN 55022: Class A

■ EN 61000-6-2

■ EN 61000-3-2, Class A

■ EN 61000-3-3

■ IEC 60950-1

FCC

■ 47 CFR, Part 15, Class A

Safety Agency Approvals

CUL

UL 508 Listed

■ UL 1604 Listed ^a

CSA-C22.2, #142 Listed

CSA-C22.2, #213 Listed a

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

Product certification documentation available at: www.xycom. com/certifications

Front Panel

■ NEMA 4/4X/12, IP65





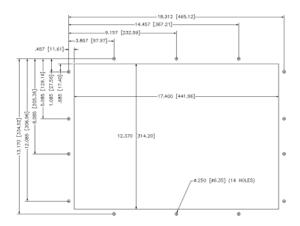
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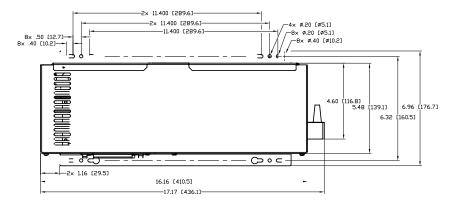
^b Consistent with internal component specifications.

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

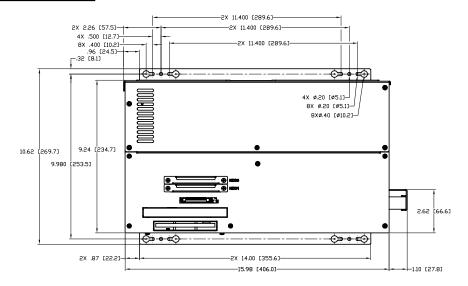
4715T and 4715KPM(T) Cutout



1547 Shelf Mounting



1547 Wall Mounting



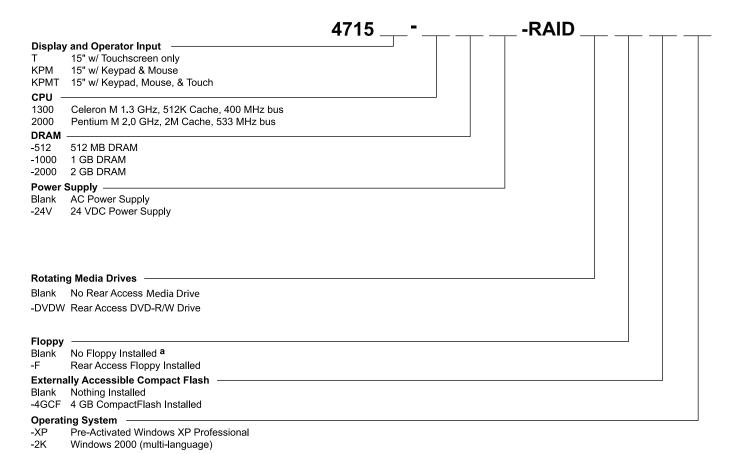
To create an order number, follow the conventions defined by the example order numbers and product configurations.

Example Order Number

Order Number

Description

4715T-1300-512-RAID-DVDW-XP RAID-enabled 4715T with 15" XGA TFT color flat panel, Intel® Celeron® M 1.3 GHz, 512 cache, 400 MHz system bus, 512 MB, Two Serial ATA 80 GB minimum Hard Drives, Rear Access Type I/II CompactFlash socket and DVD R/W, Windows XP, Onboard 10/100 and 10/100/1000 BaseT Ethernet and USB, three PCI, and one PCI or ISA available full-length expansion slots.



a When ordering a unit with no floppy operating system recovery will not be possible without adding an external USB floppy drive.

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).

Warranty Information
The 4715 series carries a
two-year parts & labor
warranty.

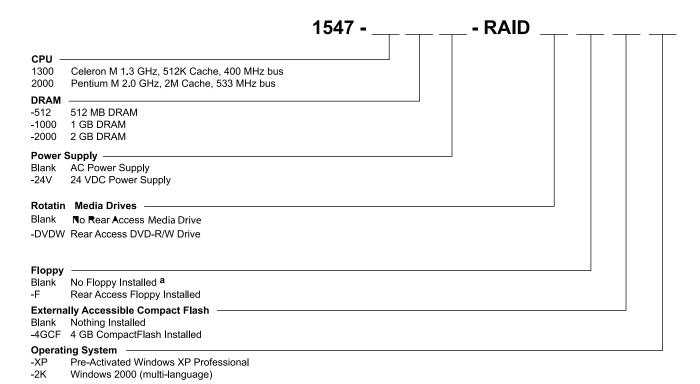
Example Order Number

Order Number

Description

1547-1300-512-RAID-DVDW-XP

1547 Industrial "Node" PC, Intel® Celeron® M 1.3 GHz, 512K cache, 400 MHz system bus, 512MB DRAM, Two Serial ATA 80 GB minimum Hard Drives, RAID-Enabled Rear Access Type I/II CompactFlash socket and DVD R/W, Windows XP, On-board 10/100 and 10/100/ 1000 BaseT Ethernet, and USB, three PCI, and one PCI or ISA available full-length expansion slots.



a When ordering a unit with no floppy operating system recovery will not be possible without adding an external USB floppy drive.

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Warranty Information
The 1547 series carries a
two-year parts & labor
warranty.

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Avertissement concernant la Proposition 65 de Californie— Plomb et composés de plomb

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