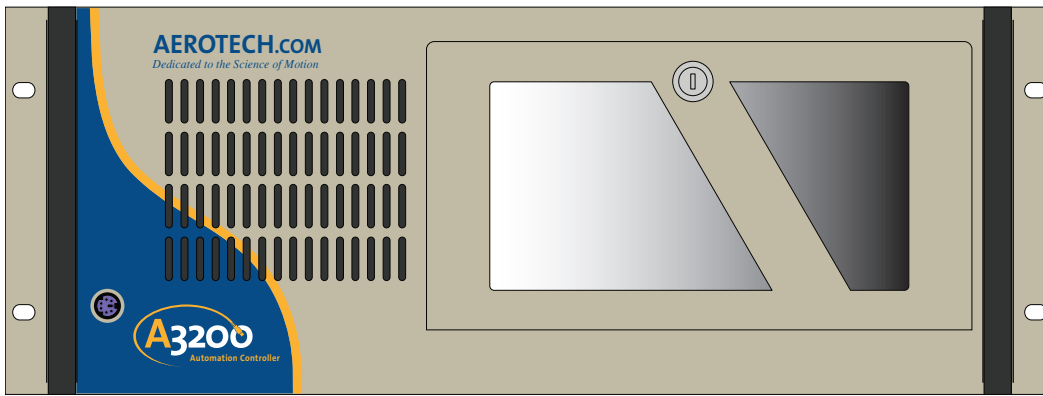




A3200 Automation Controller Hardware Manual

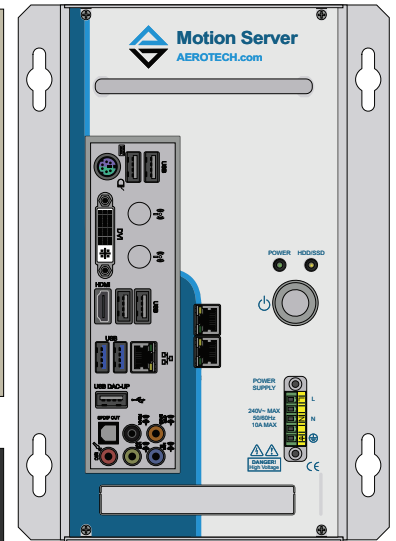
Revision: 1.02.00



4U Rack Mount



1U Rack Mount



Panel Mount

Global Technical Support

Go to www.aerotech.com/global-technical-support for information and support about your Aerotech products. The website provides downloadable resources (such as up-to-date software, product manuals, and Help files), training schedules, and PC-to-PC remote technical support. You can also complete Product Return (RMA) forms and get information about repairs and spare or replacement parts. For immediate help, contact a service office or your sales representative. Have your customer order number available before you call or include it in your email.

United States (World Headquarters)	
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Germany	China
Phone: +49 (0)911 967 9370 Fax: +49 (0)911 967 93720 Email: service@aerotechgmbh.de	Phone: +86 (21) 3319 7715 Email: saleschina@aerotech.com
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Aerotech Worldwide

United States ■ France ■ Germany ■ United Kingdom
China ■ Japan ■ Taiwan



EC Declaration of Conformity

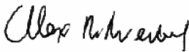
Manufacturer Aerotech, Inc.
Address 101 Zeta Drive
 Pittsburgh, PA 15238-2897
 USA
Product A3200 Automation Controller
Model/Types A3200-PC-1U RACK, A3200-PC-4U RACK,
 A3200-PPC

This is to certify that the aforementioned product is in accordance with the applicable requirements of the following Directive(s):

- | | |
|-------------|-----------------------|
| 2006/95/EC | Low Voltage Directive |
| 2004/108/EC | EMC Directive |
| 2011/65/EU | RoHS 2 Directive |

and has been designed to be in conformity with the applicable requirements of the following documents when installed and used in accordance with the manufacturer’s supplied installation instructions.

- | | |
|------------|---|
| EN 60950-1 | Information technology equipment - Safety |
| EN 55022 | IT equipment - Radio disturbance |
| EN 55024 | IT equipment - Immunity characteristics |

Name  / Alex Weibel
Position Engineer Verifying Compliance
Location Pittsburgh, PA
Date July 2, 2015

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Chapter 1: A3200 Automation Controller

The A3200 Automation Controller provides a rugged, compact panel-mount computer, or rack-mount configuration (1U or 4U), designed for industrial environments. The A3200 Automation Controller offers easy front and top connections to simplify installation with panel-mount devices, while the compact enclosure offers a convenient space-saving package. A variety of optional peripherals can enhance operation including FireWire® ports, USB and serial ports, dual Ethernet and solid state storage.

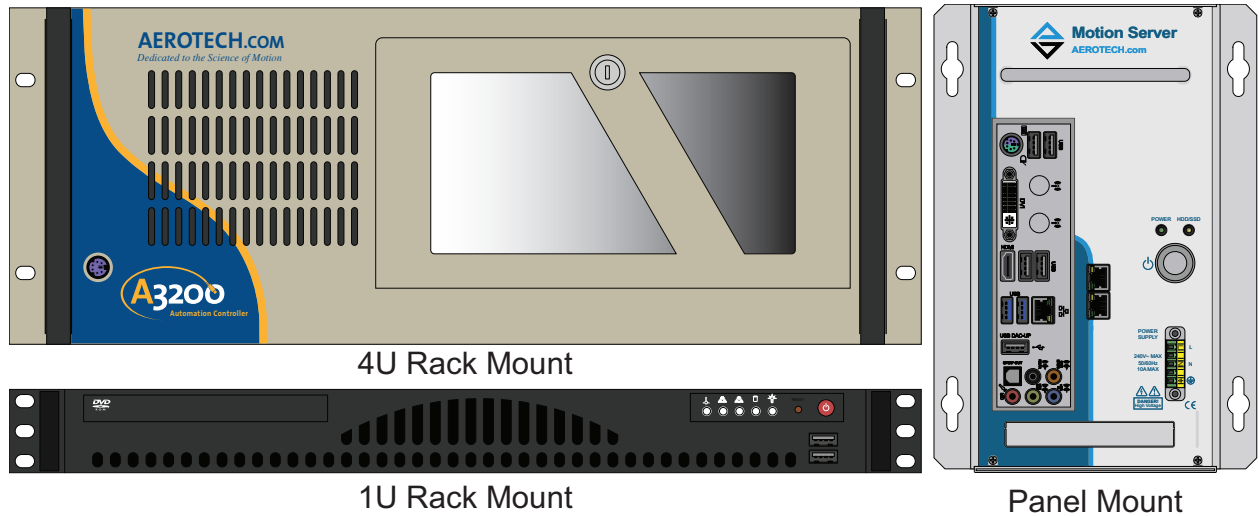


Figure 1-1: A3200 Automation Controller Configuration Options

1.1. Order Information

NOTE : PC specifications subject to change without notice. Please contact factory for most up to date information. Reference your third-party motherboard to determine your current specifications.

Table 1-1: Ordering Options (Panel Mount)

Controller	
A3200 Motion Server PPC	A3200 panel-mounted machine controller
Processor (Required)	
-i5	Intel i5; 4 Core, 3.1 GHz; 6 MB Cache, 8 GB memory
-i7	Intel i7; 4 Core, 3.6 GHz; 8 MB Cache, 8 GB memory
Operating System (Required)	
-Win 7 64	Windows 7 64-bit SP1 operating system
-Win 8.x 64	Windows 8.1 (minimum) 64-bit operating system
Controller Network Interface (Required)	
-1394	Dual port IEEE-1394
Fieldbus Network Interface (Optional)	
-I/O 0	No fieldbus option
-I/O 1	Dual-port, real-time Ethernet for EtherCat™ and PROFINET
PC Options (Optional)	
KB/MOUSE	USB keyboard and mouse
KB/TOUCHPAD	USB keyboard with integral touch pad
-CFG AS A3200 REMOTE SERVER	Configure A3200 as remote server

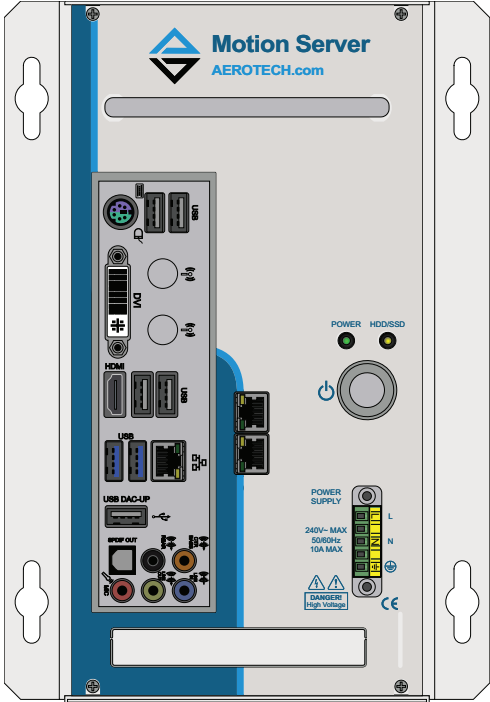


Figure 1-2: Panel Mount PC Connector View (typical)

Table 1-2: Ordering Options (Rack Mount)

Controller	
A3200 Motion Server	A3200 SMC-based machine controller
Operating System (Required)	
-Win 7	Windows 7 32-bit
-Win 7 64	Windows 7 64-bit SP1 operating system
-Win 8.x 64	Windows 8.1 (minimum) 64-bit operating system
PC Type	
-4U Rack	19-inch 4U rack-mount industrial PC
-1U Rack	1U rack-mount industrial PC
-1U Rack SSD	1U rack-mount industrial PC; includes solid state hard drive
PC Options	
-MOUSE-USB	Mouse
-KEYBOARD-USB	Keyboard
-KB/TOUCHPAD	Keyboard with Touchpad
-17" LCD MONITOR	17" LCD Monitor
-GLOBAL ETHERNET I/O	Real-time compatible Ethernet card
-CFG PC FOR A3200 REMOTE SERVER	PC is configured for A3200 remote server operation
-CFG FOR GLOBAL ETHERNET I/O	Configure Global Ethernet card for real-time operation
-HILSCHER	Dual port Ethernet card
AC Power Input Options	
-A 115 VAC	No Line Cord, switches set for 115 VAC
-A US 115 VAC	US 115 VAC line cord
-B 230 VAC	No Line Cord, switches set for 230 VAC
-B US 230 VAC	US 230 VAC line cord
-B-ENGLAND	UK compatible line cord
-B-GERMANY	German compatible line cord
-B-ISRAEL	Israel compatible line cord
-B-INDIA	India compatible line cord
-B-AUSTRALIA	Australia compatible line cord

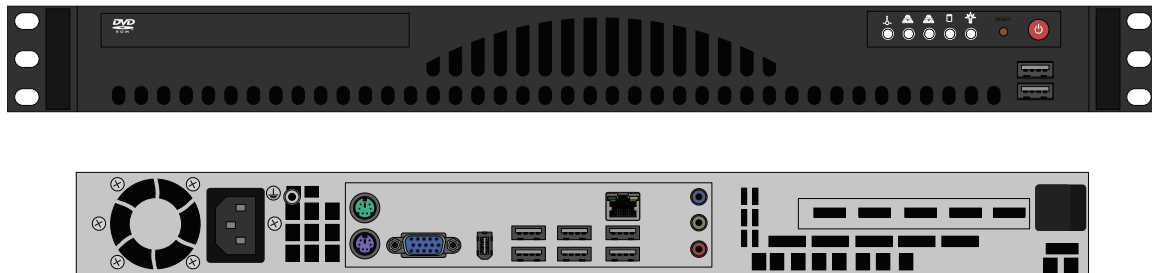
**Figure 1-3: 1U PC Connector View (Typical)**



Figure 1-4: 4U PC Connector View (Typical)

1.2. Dimensions

NOTE: Aerotech continually improves its product offerings; listed options may be superseded at any time. All drawings and illustrations are for reference only and were complete and accurate as of this manual's release. Refer to www.aerotech.com for the most up-to-date information.

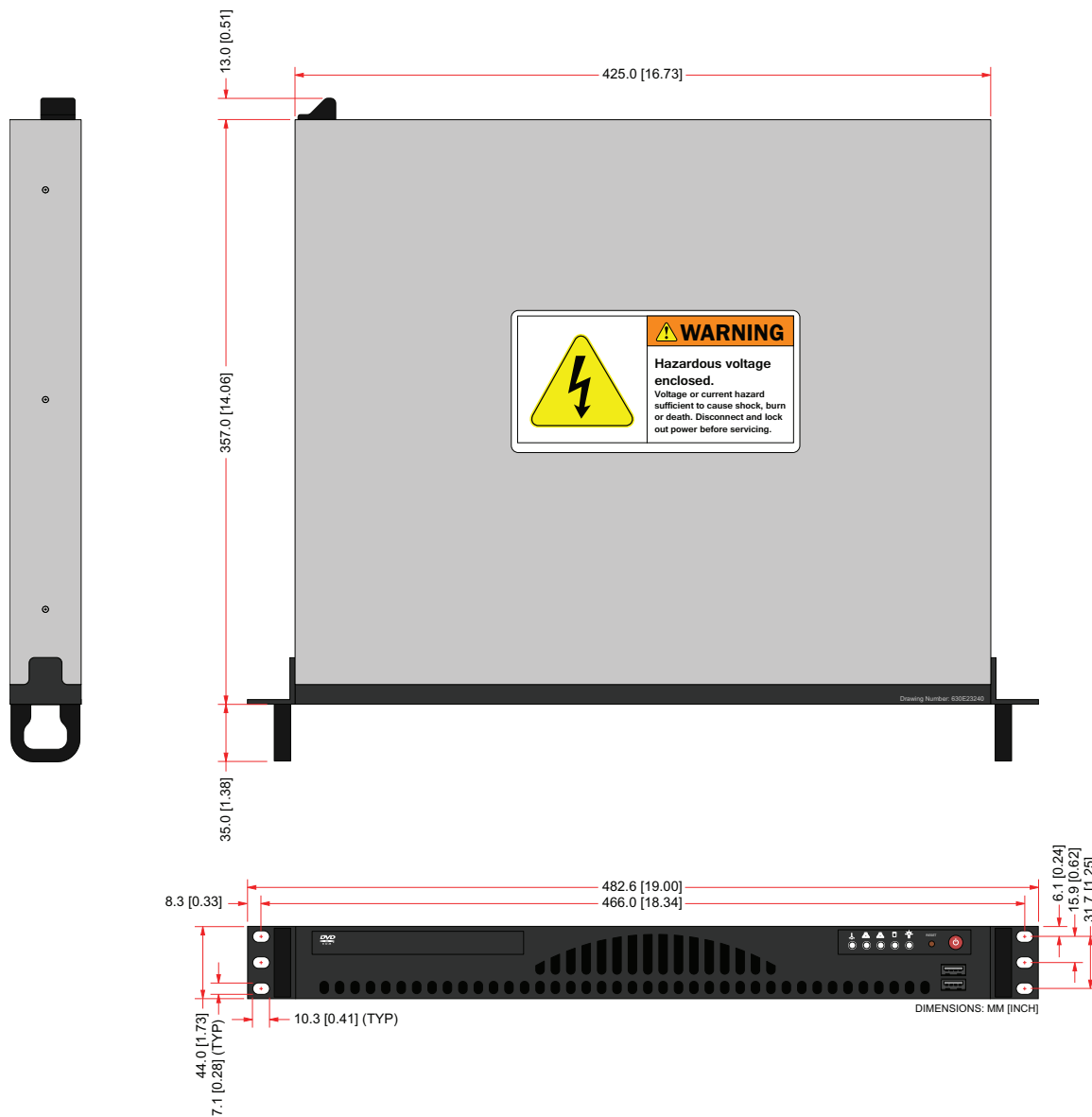


Figure 1-5: 1U Dimensions

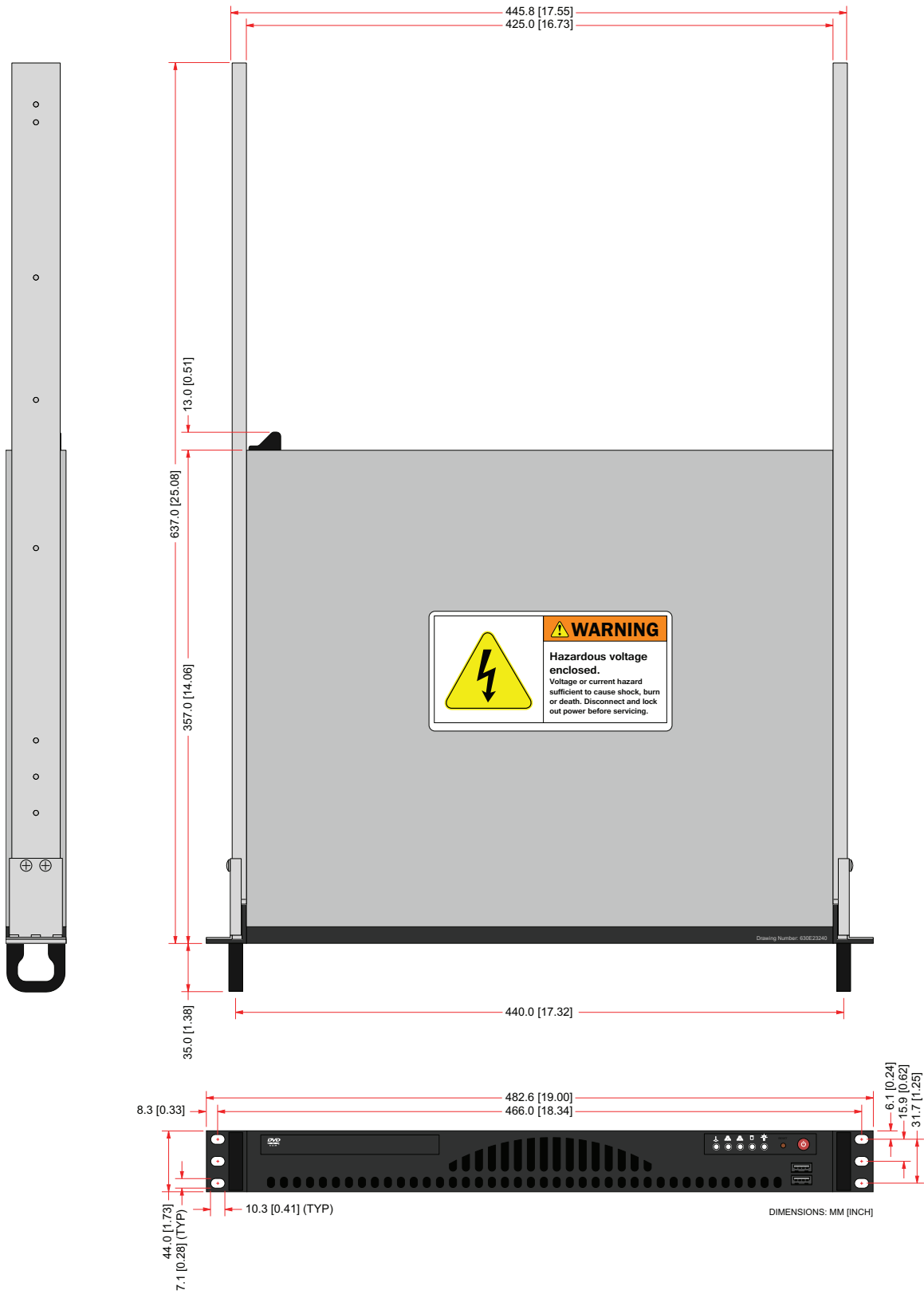


Figure 1-6: 1U with Chassis Slide Dimensions

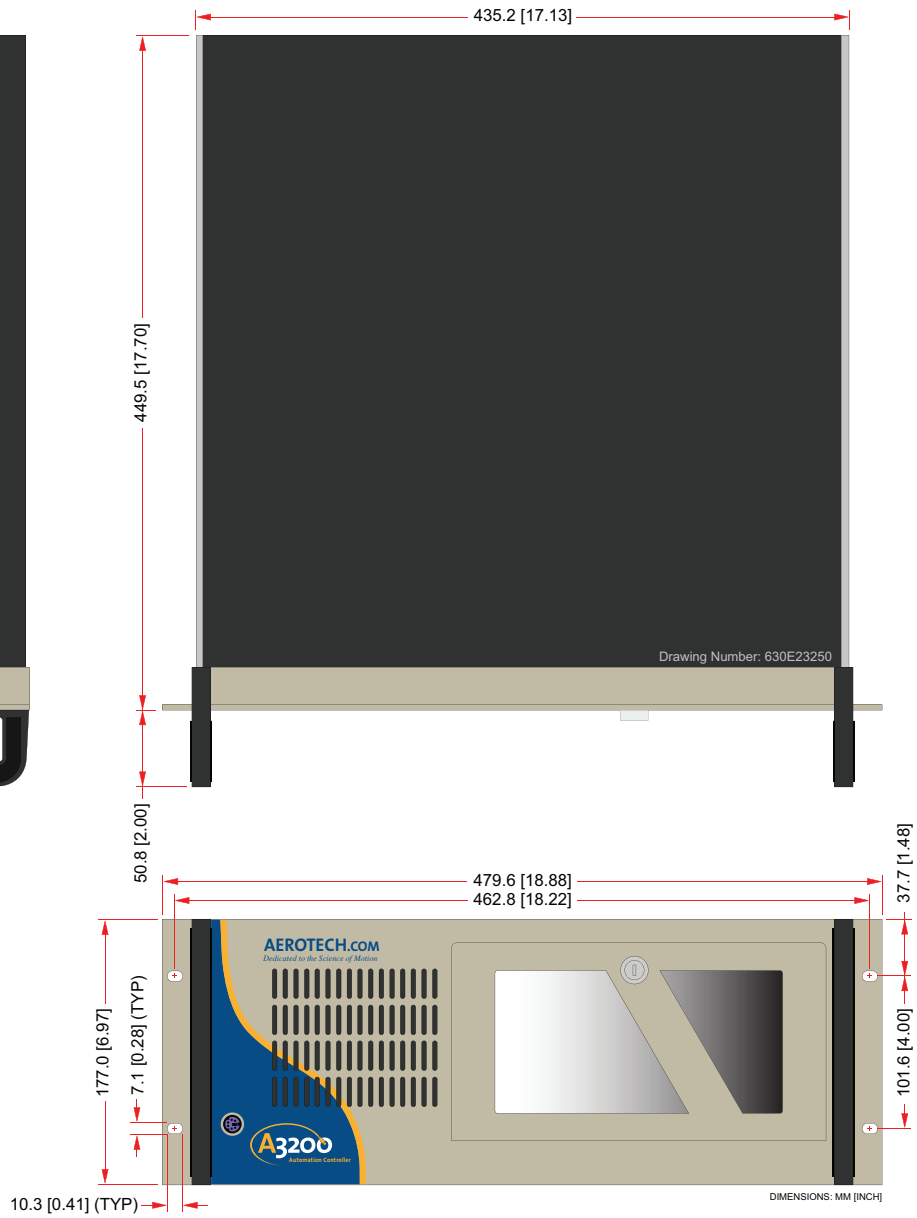


Figure 1-7: 4U Dimensions

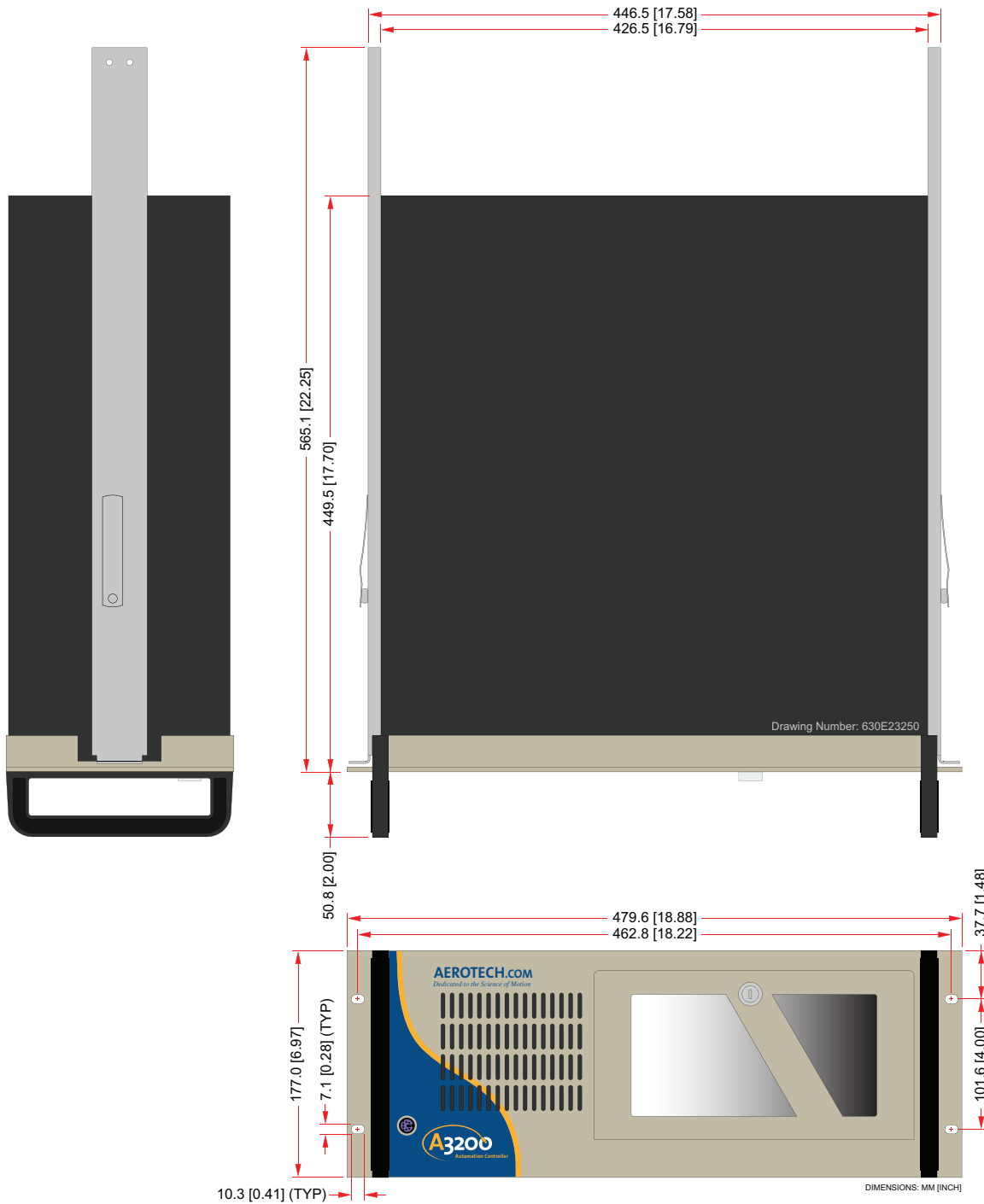


Figure 1-8: 4U with Chassis Slide Dimensions

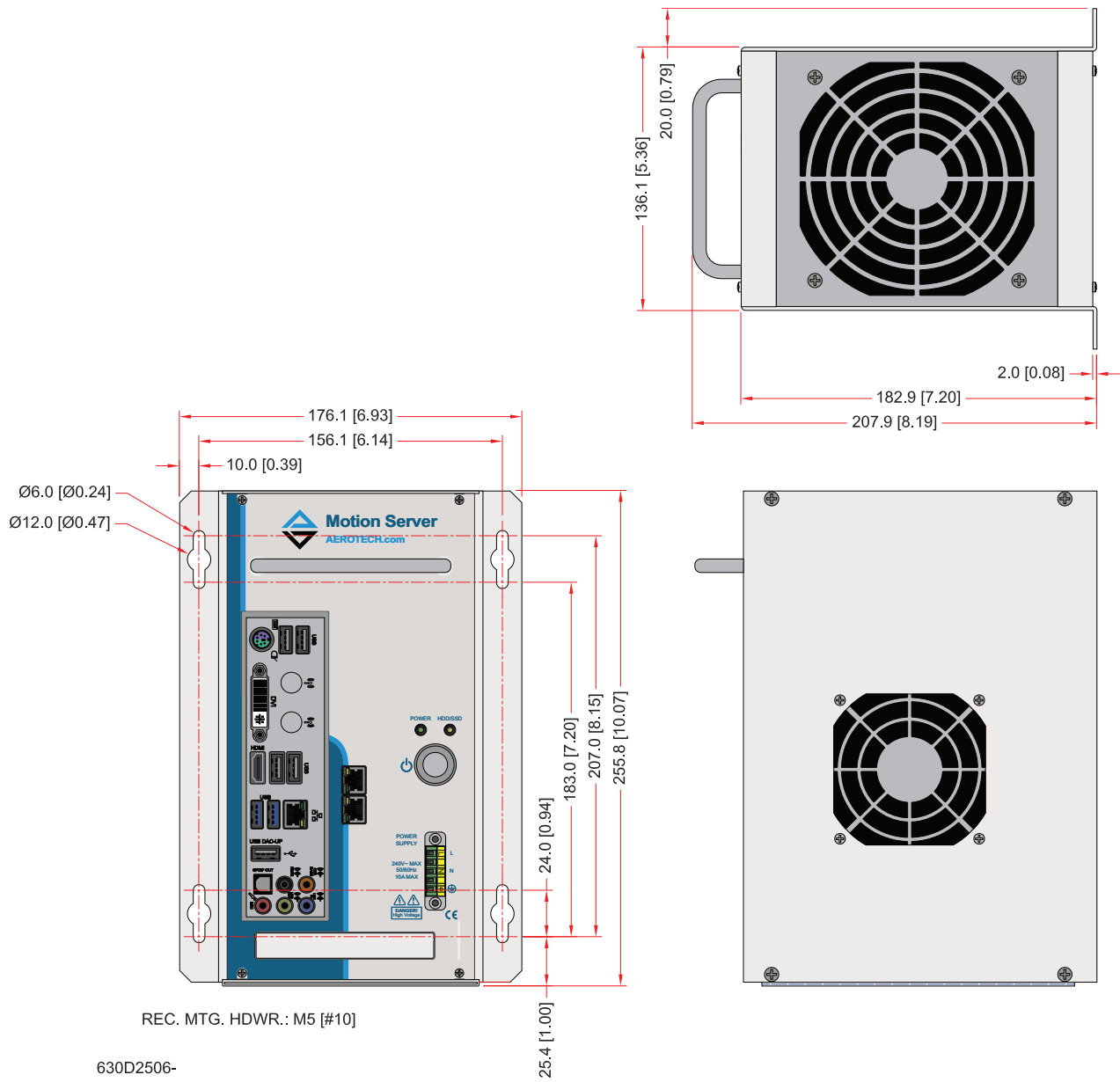


Figure 1-9: Panel Mount Dimensions

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Appendix A: Warranty and Field Service

Aerotech, Inc. warrants its products to be free from harmful defects caused by faulty materials or poor workmanship for a minimum period of one year from date of shipment from Aerotech. Aerotech's liability is limited to replacing, repairing or issuing credit, at its option, for any products that are returned by the original purchaser during the warranty period. Aerotech makes no warranty that its products are fit for the use or purpose to which they may be put by the buyer, whether or not such use or purpose has been disclosed to Aerotech in specifications or drawings previously or subsequently provided, or whether or not Aerotech's products are specifically designed and/or manufactured for buyer's use or purpose. Aerotech's liability on any claim for loss or damage arising out of the sale, resale, or use of any of its products shall in no event exceed the selling price of the unit.

THE EXPRESS WARRANTY SET FORTH HEREIN IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE. IN NO EVENT SHALL AEROTECH BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES.

Return Products Procedure

Claims for shipment damage (evident or concealed) must be filed with the carrier by the buyer. Aerotech must be notified within thirty (30) days of shipment of incorrect material. No product may be returned, whether in warranty or out of warranty, without first obtaining approval from Aerotech. No credit will be given nor repairs made for products returned without such approval. A "Return Materials Authorization (RMA)" number must accompany any returned product(s). The RMA number may be obtained by calling an Aerotech service center or by submitting the appropriate request available on our website (www.aerotech.com). Products must be returned, prepaid, to an Aerotech service center (no C.O.D. or Collect Freight accepted). The status of any product returned later than thirty (30) days after the issuance of a return authorization number will be subject to review.

Visit <http://www.aerotech.com/service-and-support.aspx> for the location of your nearest Aerotech Service center.

Returned Product Warranty Determination

After Aerotech's examination, warranty or out-of-warranty status will be determined. If upon Aerotech's examination a warranted defect exists, then the product(s) will be repaired at no charge and shipped, prepaid, back to the buyer. If the buyer desires an expedited method of return, the product(s) will be shipped collect. Warranty repairs do not extend the original warranty period.

Fixed Fee Repairs - Products having fixed-fee pricing will require a valid purchase order or credit card particulars before any service work can begin.

All Other Repairs - After Aerotech's evaluation, the buyer shall be notified of the repair cost. At such time the buyer must issue a valid purchase order to cover the cost of the repair and freight, or authorize the product(s) to be shipped back as is, at the buyer's expense. Failure to obtain a purchase order number or approval within thirty (30) days of notification will result in the product(s) being returned as is, at the buyer's expense.

Repair work is warranted for ninety (90) days from date of shipment. Replacement components are warranted for one year from date of shipment.

Rush Service

At times, the buyer may desire to expedite a repair. Regardless of warranty or out-of-warranty status, the buyer must issue a valid purchase order to cover the added rush service cost. Rush service is subject to Aerotech's approval.

On-site Warranty Repair

If an Aerotech product cannot be made functional by telephone assistance or by sending and having the customer install replacement parts, and cannot be returned to the Aerotech service center for repair, and if Aerotech determines the problem could be warranty-related, then the following policy applies:

Aerotech will provide an on-site Field Service Representative in a reasonable amount of time, provided that the customer issues a valid purchase order to Aerotech covering all transportation and subsistence costs. For warranty field repairs, the customer will not be charged for the cost of labor and material. If service is rendered at times other than normal work periods, then special rates apply.

If during the on-site repair it is determined the problem is not warranty related, then the terms and conditions stated in the following "On-Site Non-Warranty Repair" section apply.

On-site Non-Warranty Repair

If any Aerotech product cannot be made functional by telephone assistance or purchased replacement parts, and cannot be returned to the Aerotech service center for repair, then the following field service policy applies:

Aerotech will provide an on-site Field Service Representative in a reasonable amount of time, provided that the customer issues a valid purchase order to Aerotech covering all transportation and subsistence costs and the prevailing labor cost, including travel time, necessary to complete the repair.

Service Locations

<http://www.aerotech.com/contact-sales.aspx?mapState=showMap>

USA, CANADA, MEXICO	CHINA	GERMANY
Aerotech, Inc. Global Headquarters Phone: +1-412-967-6440 Fax: +1-412-967-6870	Aerotech China Full-Service Subsidiary Phone: +86 (21) 3319 7715	Aerotech Germany Full-Service Subsidiary Phone: +49 (0)911 967 9370 Fax: +49 (0)911 967 93720
JAPAN	TAIWAN	UNITED KINGDOM
Aerotech Japan Full-Service Subsidiary Phone: +81 (0)50 5830 6814 Fax: +81 (0)43 306 3773	Aerotech Taiwan Full-Service Subsidiary Phone: +886 (0)2 8751 6690	Aerotech United Kingdom Full-Service Subsidiary Phone: +44 (0)1256 855055 Fax: +44 (0)1256 855649

Have your customer order number ready before calling.

Appendix B: Revision History

Revision	Date	Description
1.02.00	July 2, 2015	<ul style="list-style-type: none">• New Panel Mount version (removed old panel mount version)• Options and specifications have been updated
1.01.00	April 10, 2015	<ul style="list-style-type: none">• Added Panel Mount version (PCI)• Removed Windows XP options• Added RoHS statement to EC Declaration of Conformity
1.00.00	July 3, 2012	New Manual

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