

INTELLIGENT INDUSTRIAL PC AUTOMATION1-iPC



Aerotech's lineup of industrial PCs include compact control cabinet PCs, 1U rack-mount PCs, 4U rack-mount PCs and desktop PCs.

Performance and Security Today — And For Years to Come

Running your high-end automation system on a less-than-adequate PC? Frustrated by Windows updates that disrupt your operating system? It's time to switch to the Automation1 Intelligent Industrial PC (iPC).

Built on Windows 10 IoT Enterprise Long-Term Service Channel (LTSC), the Automation1 iPC has a full version of Windows 10 that delivers enterprise manageability and security. Windows 10 LTSC versions receive quality updates, but not feature updates. So, the device's security stays up to date, but the functional performance remains unchanged.

Applications that require the highest degree of long-term reliability, durability and

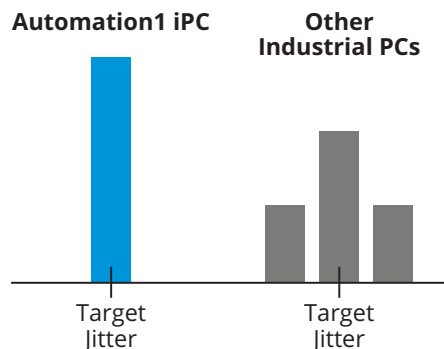
security, such as medical equipment, point-of-sales systems and ATMs, run on industrial PCs. Windows 10 LTSC is not available to commercial buyers.

- Connects to motor drives, galvo scan head controllers and more over Aerotech's HyperWire® fiber-optic communication bus, which has 20x the bandwidth of 100BASE-T Ethernet buses
- Matches the form factor of Aerotech's hardware products
- Allows for simple selection process and easy integration by using one vendor
- Ensures stability with Windows 10 IoT Enterprise Long-Term Service Channel (LTSC)
- Includes Intel CORE™ i7 processor
- Offers human-machine interface (HMI) packages
- Includes solid-state disk drive

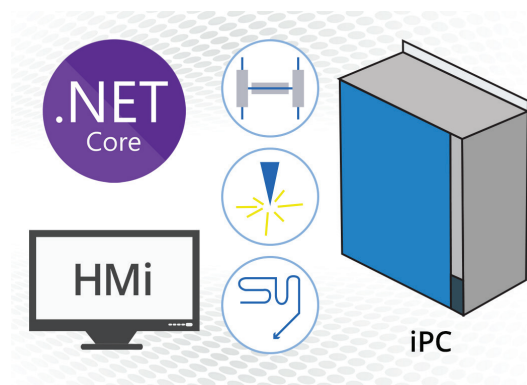
Simple Integration. A Lifetime of Support.

Getting an optimized industrial PC from Aerotech eliminates hours of integration time and enables your team to focus their energy on where they add value. You also end up with a better solution that delivers consistently high real-time performance and will be supported by Aerotech through the life of your system.

PERFORMANCE YOU CAN COUNT ON



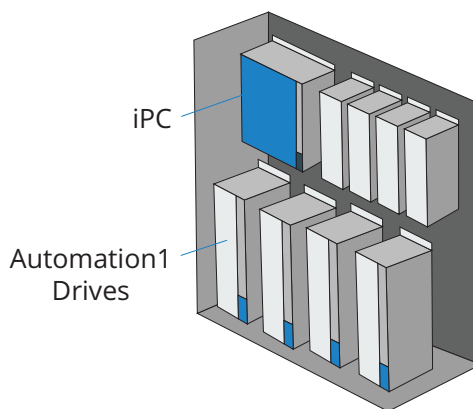
The Automation1 iPC is set up for consistently high real-time performance, so you can expect long-term durability and reliable operation of your industrial automation solution. Other industrial PCs try to achieve this, but tend to yield too much performance jitter and real-time errors.



YOUR MACHINE CONTROL SOLUTION

When partnered with the Automation1 software-based machine controller (iSMC), the iPC houses all the tools you need to control your machine. You'll be ready to integrate complex processes — like coupling reliable high-resolution motion trajectory generation with advanced process tool controls, such as gantry and industrial laser control — or build a custom HMI with the Automation1 .NET API.

EFFORTLESS INTEGRATION



The Automation1 iPC arrives at your door as an optimized controller, which is seINTEGRATIONt up and ready to go. It can be ordered with both the Automation1 software and controller installed. Just plug it in and start it up.

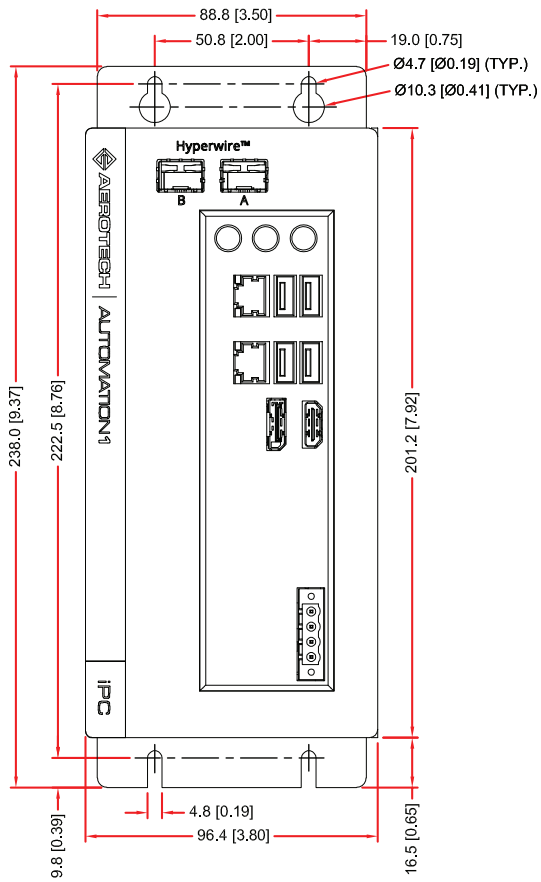
OPTIONS TO FIT YOUR NEEDS

Choose from several iPC form factors to ensure the best fit for your application and space. The compact control cabinet version is easily mounted side-by-side with Automation1 motor drives for a clean, serviceable arrangement. The 1U and 4U 19" rack mount PCs sit above or below an Aerotech 19" rack mount controller, such as the Automation1 XR3. The desktop version is an ideal match for lab and research environments.

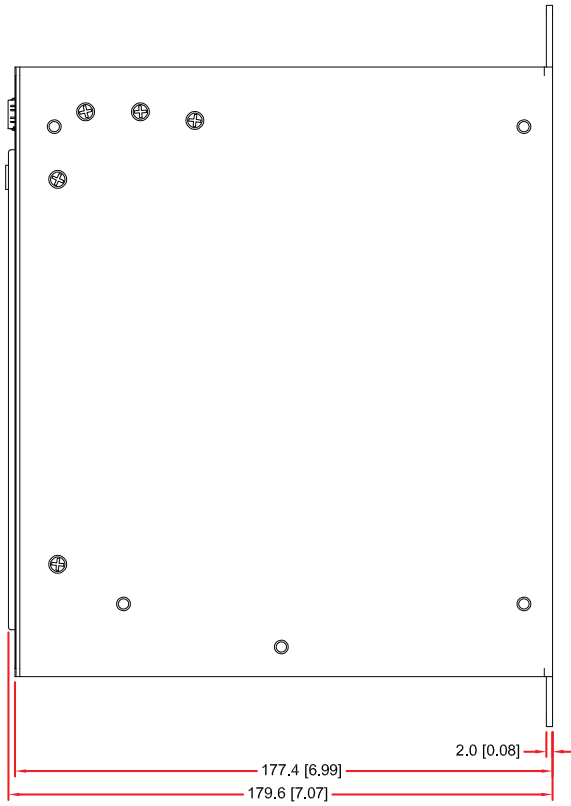
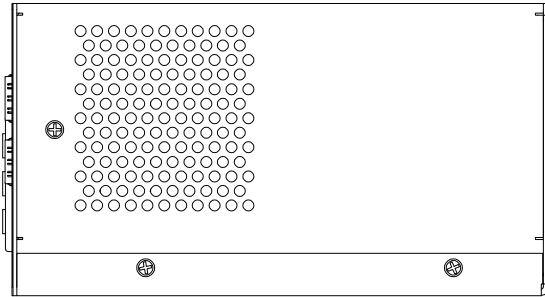
	-CC05	-CC04	-R402	-R103	-DT01
Description	Compact control cabinet PC	Compact control cabinet PC	4U rack mount	1U rack mount	Desktop PC
Automation1 Version	1.0 and above	1.0 and above	1.0 and above	1.0 and above	1.0 and above
Processor	Intel i7	Intel i5	Intel i7	Intel i7	Intel i7
RAM	16 G	16 G	16 G	16 G	16 G
Operating System⁽¹⁾	Windows 10 IoT Enterprise LTSC	Windows 10 IoT Enterprise LTSC	Windows 10 IoT Enterprise LTSC	Windows 10 IoT Enterprise LTSC	Windows 10 IoT Enterprise LTSC
Hard Disk Space	256 GB SSD	128 GB SSD	512 GB SSD	512 GB SSD	512 GB SSD
USB 3.0 Connections	4	4	4	4	4
Input Power	24 VDC	24 VDC	100-240 VAC 50-60 Hz	100-240 VAC 50-60 Hz	100-240 VAC 50-60 Hz
Display Connections	VGA DVI-D	VGA DVI-D	VGA DVI-D	VGA DVI-D	VGA DVI-D
PCI/PCIe Expansion Slots	N/A	N/A	1 x PCIe x16 3 x PCIe x4 3x PCI	N/A	1 x PCIe x16 3 x PCIe x4 3x PCI
DVD Drive	No	No	Yes	Yes	Yes
Drive Interface	HyperWire	HyperWire	HyperWire	HyperWire	HyperWire
LAN	10/100/1000 Mbit (qty. 2)	10/100/1000 Mbit (qty. 2)	10/100/1000 Mbit (qty. 2)	10/100/1000 Mbit (qty. 2)	10/100/1000 Mbit (qty. 2)
Modbus Support	Future	Future	Future	N/A	Future
EtherCAT Support	Future	Future	Future	N/A	Future
Power Supply	180 W	180 W	400 W	350 W	180 W

¹ To avoid machine disruption, Aerotech disables automatic updates on Windows PCs that are shipped from Aerotech.
To customize your update settings, refer to Microsoft's Windows documentation or Aerotech's User Guide to Windows 10 Updates.

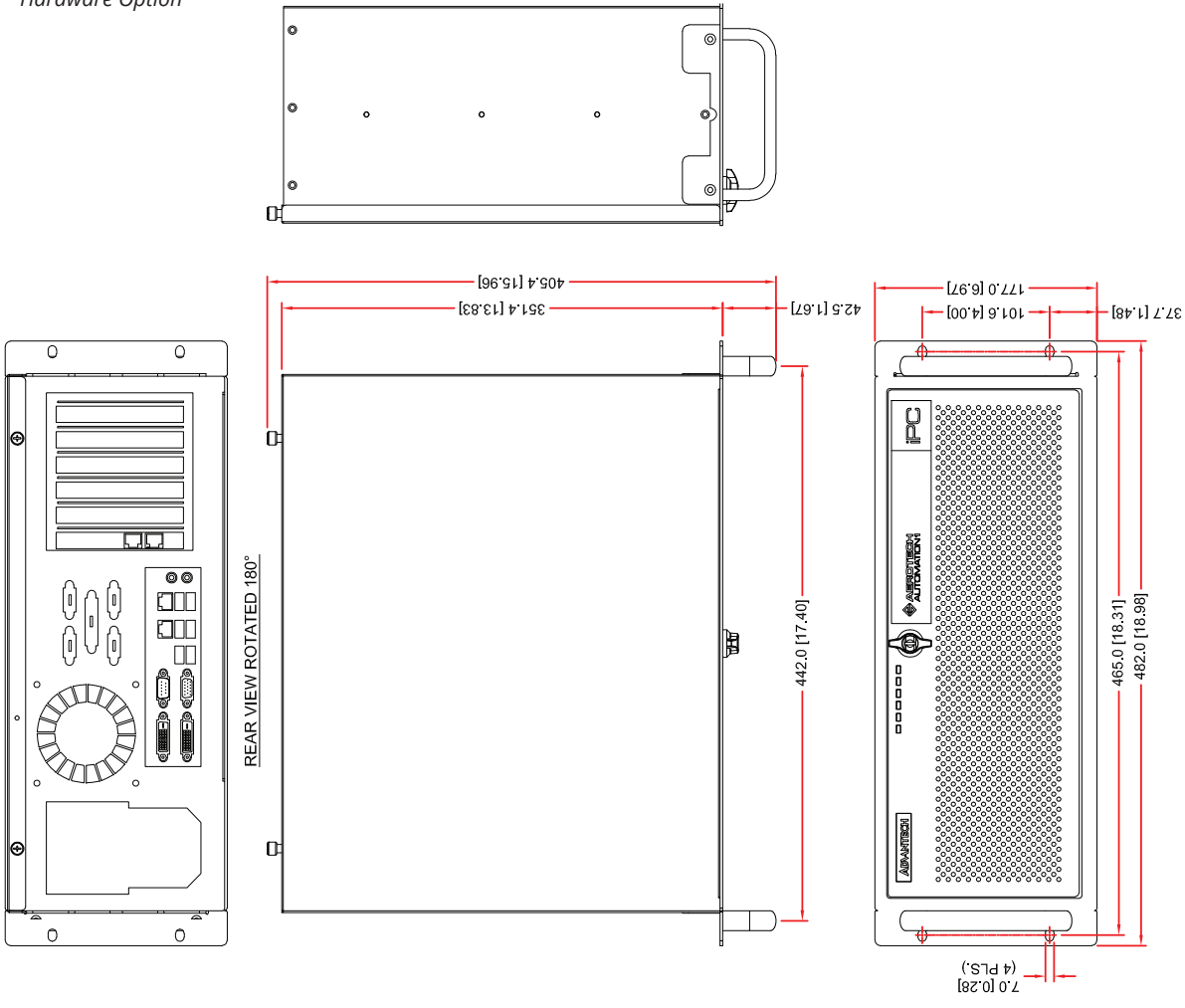
Automation1-IPC, -CC04 &
-CC05 Hardware Options



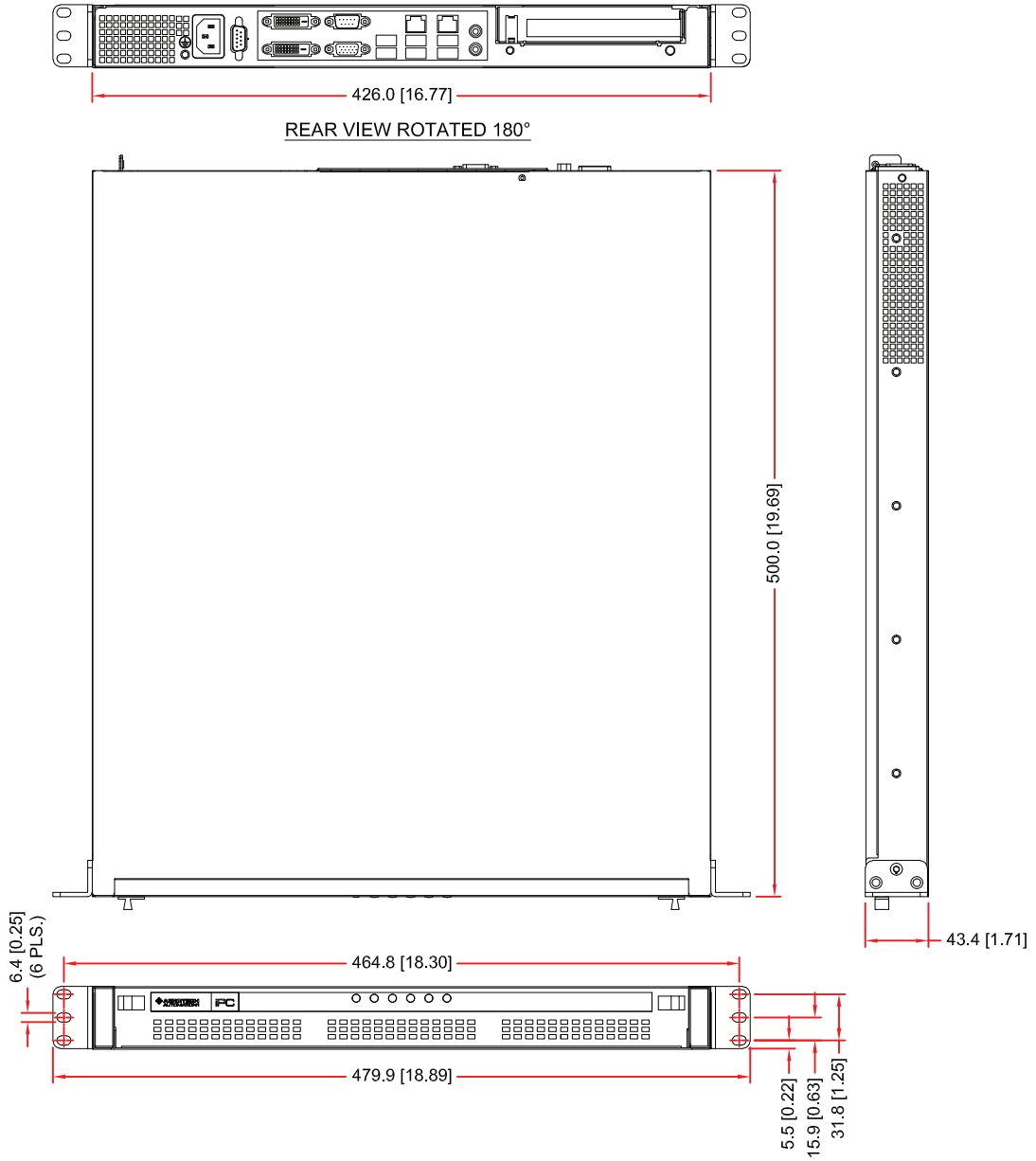
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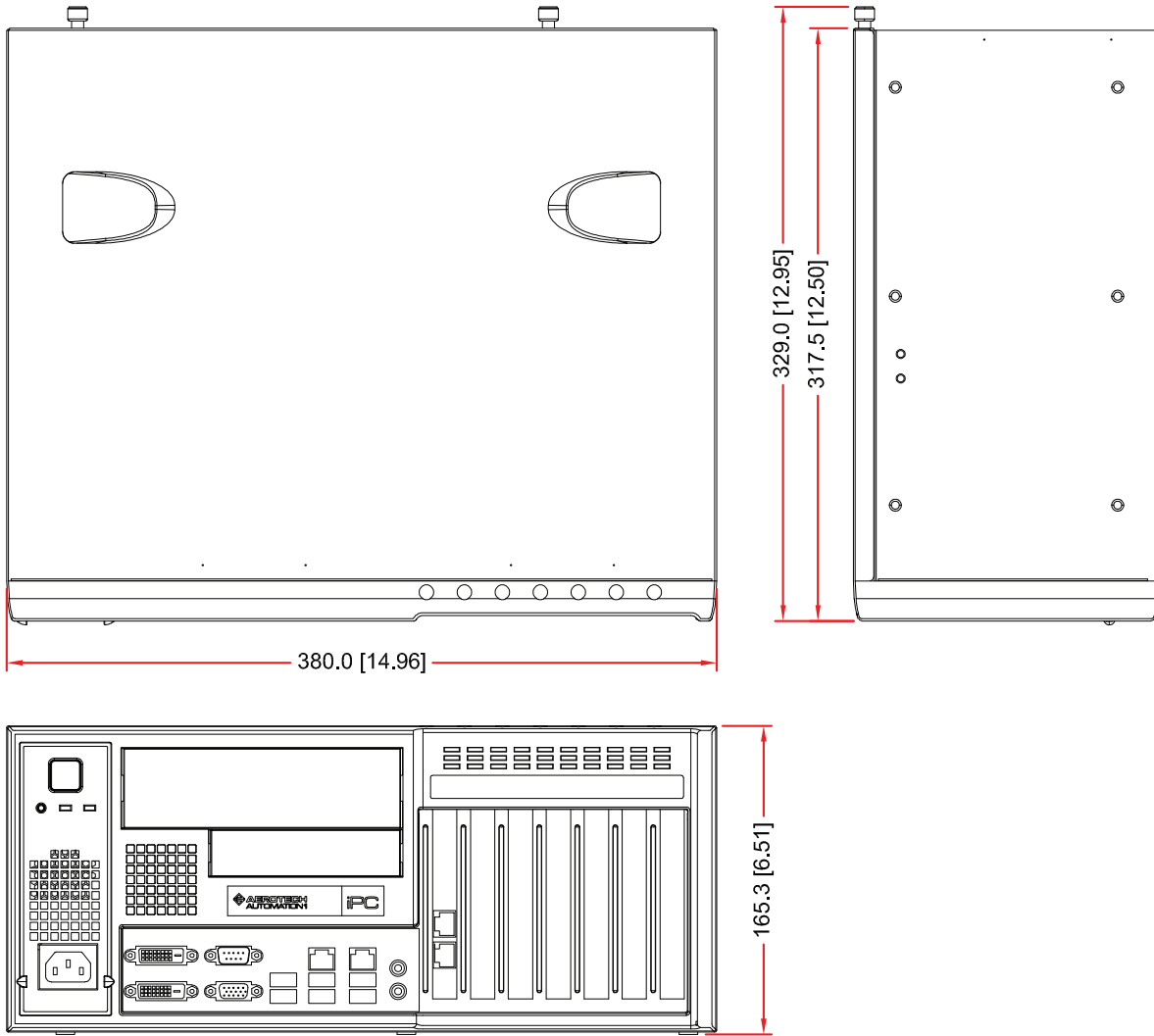
Automation1-iPC, -R402
Hardware Option



Automation1-IPC, -R103
Hardware Option



Automation1-IPC, -DT01
Hardware Option



ORDERING OPTIONS	EXAMPLE SELECTIONS	AVAILABLE SELECTIONS
Hardware	-CC05	-CC05 Compact Control cabinet IPC. i7. SSD -CC04 Compact Control cabinet IPC. i5. SSD -R402 4U 19" rack mount IPC. i7. SSD -R103 1U 19" rack mount IPC. i7. SSD -DT01 Desktop tower IPC. i7. SSD
Automation1 MDK Installation	-MDK01	-MDK01 Automation1 MDK installed as per line item (default) -MDK00 Do not install Automation1 MDK software
Automation1 iSMC Installation	-SMC01	-SMC01 Automation1 iSMC installed as per line item (default) -SMC00 Do not install Automation1 iSMC controller
Operating System	-OS03	-OS03 Windows 10 64-bit operating system (default)
Motion Bus	-MD03	-MB03* HyperWire motion bus via PCIe interface card (default) -MB00 No motion bus interface card *Required with choice of -SMC01
Automation Bus	-AB00	-AB01* Ethernet expansion card -AB00 No EtherCAT interface card or ethernet expansion cards (default) *Ethernet expansion card can be used for PC Modbus connections
HMI Package	-HMI03	-HMI04 24" LED monitor, USB keyboard with integral touch pad -HMI03 24" LED monitor, USB keyboard and mouse -HMI02 USB keyboard with integral touch pad -HMI01 USB keyboard and mouse -HMI00 No HMI package (default)
AC Adaptor	-AC1	-AC0 No AC adaptor (default) -AC1 AC adaptor for PC power
Line Cord*	-LC1	-LC0 No line cord (default) -LC1 USA 115 VAC compatible line cord -LC2 USA 230 VAC compatible line cord -LC3 German compatible line cord -LC4 UK compatible line cord -LC5 Israel compatible line cord -LC6 India compatible line cord -LC7 Australia compatible line cord *Required for -R402, -R103 and -DT01 hardware options

Example Configuration: Automation1-ipc-CC05-MDK01-SMC01-OS03-AB00-HMI03-AC1-LC1