Revolutionary Industrial PC for IoT Era

With innovative i-Modules For flexible expansion

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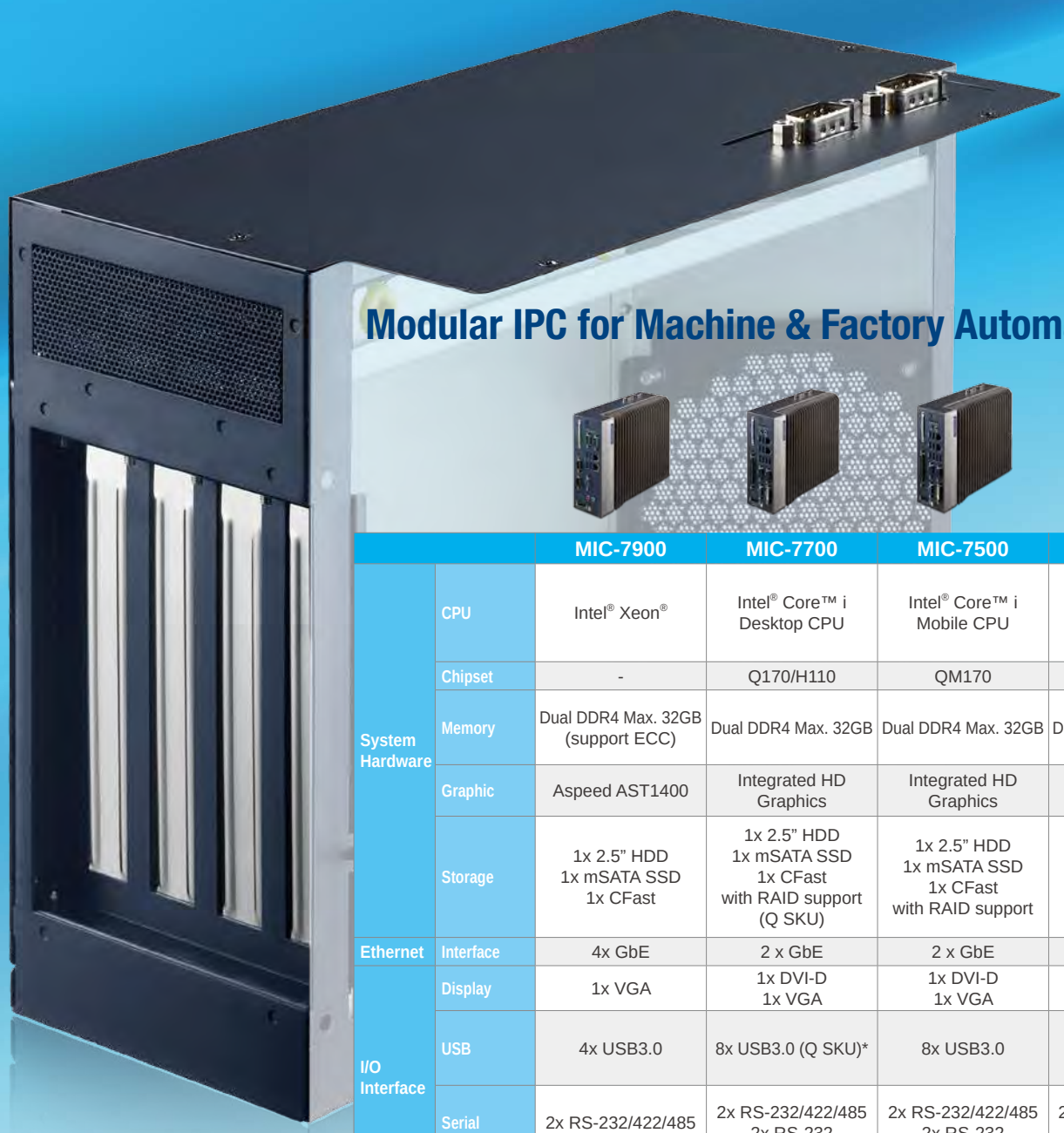
With Innovative i-Modules for Flexible Expansion



Modular IPC for Machine & Factory Automation

		MIC-7900	MIC-7700	MIC-7500	MIC-7300
System Hardware	CPU	Intel® Xeon®	Intel® Core™ i Desktop CPU	Intel® Core™ i Mobile CPU	Intel® Celeron®/ Atom™
	Chipset	-	Q170/H110	QM170	-
	Memory	Dual DDR4 Max. 32GB (support ECC)	Dual DDR4 Max. 32GB	Dual DDR4 Max. 32GB	Dual DDR3L Max. 8GB
	Graphic	Aspeed AST1400	Integrated HD Graphics	Integrated HD Graphics	Integrated HD Graphics
	Storage	1x 2.5" HDD 1x mSATA SSD 1x CFast	1x 2.5" HDD 1x mSATA SSD 1x CFast with RAID support (Q SKU)	1x 2.5" HDD 1x mSATA SSD 1x CFast with RAID support	1x 2.5" HDD 1x mSATA SSD
Ethernet	Interface	4x GbE	2 x GbE	2 x GbE	2 x GbE
I/O Interface	Display	1x VGA	1x DVI-D 1x VGA	1x DVI-D 1x VGA	1x DVI-D 1x VGA
	USB	4x USB3.0	8x USB3.0 (Q SKU)*	8x USB3.0	2x USB3.0 6x USB2.0
	Serial	2x RS-232/422/485	2x RS-232/422/485 2x RS-232	2x RS-232/422/485 2x RS-232	2x RS-232/422/485 2x RS-232
	Front Audio	2x Line-out, 1x Mic-in			
General	Operating Temperature	-20~50°C	-10~50°C**	-20~60°C	-20~60°C
	Power Input	DC 9-36V			
	Dimension (H/W/D)	192x74x230mm	192x78x230mm	192x74x230mm	192x74x230mm

* H SKU: 4x USB3.0, 4x USB2.0
** TDP 35W CPU

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Comprehensive Expansion Options for Various Requirements

i-Module		MIC-75M10	MIC-75M20	MIC-73M20	MIC-75M20-01	MIC-75M11	MIC-73M11
MIC-7900		1x PCIe x16	1x PCIe x16 1xPCIe x4	-	2x PCIe x8	1x PCIe x16 1x PCI	-
MIC-7500							
MIC-7700	MIC-7700Q						
	MIC-7700H				-		
MIC-7300		-	-	2x PCIe x1	-	-	1x PCIe x1 1x PCI
MIC + i-Module Dimension (HxWxD)*		192x97x230mm	192x123x230mm				
System Fan (Optional)**		-	2x 4cm				

i-Module		MIC-75M13	MIC-73M13	MIC-75M40	MIC-75S20
MIC-7900		1x PCIe x16 3x PCI 2x 2.5" HDD	-	1x PCIe x8 3x PCIe 2x 2.5" HDD	1x PCIe x16 1x PCIe x4 2x 2.5" Hot Swap HDD
MIC-7500					
MIC-7700	MIC-7700Q				
	MIC-7700H			-	
MIC-7300		-	1x PCIe x1 3x PCI 1x 2.5" HDD	-	-
MIC + i-Module Dimension (HxWxD)*		192x163x230mm			
System Fan (Optional)**		1x 8cm			

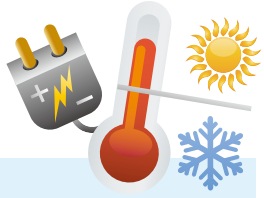
*When an i-module is assembled with MIC-7700, total width will be increased by 4 mm.
** Fan must be added if expansion cards exceed 45W power consumption.

Next-Generation Industrial PCs with Innovative i-Modules for Flexible Expansion

The MIC-7000 Series comprises compact modularized systems that support the innovative i-Module for flexible expansion to satisfy diverse application requirements. The MIC-7000 Series can be widely employed for factory and machine automation. The fanless and ruggedized design ensures that these systems can withstand the demands of harsh industrial environments. Furthermore, comprehensive modularized options and the ease of configuration effectively reduce lead times for Advantech's configure-to-order service (CTOS).

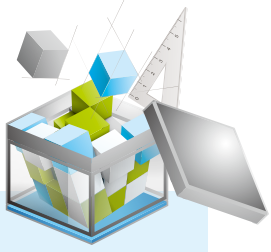
Modularized

- i-Module support for flexible expansion
- CTOS service for minimal lead times



Ruggedized

- Compact and fanless design
- Supports wide DC input range and operating temperature



Customized

- 20 standard PCIe lanes for I/O customization and expansion
- Rapid development cycles and simple validation process

Optimized

- Available with various processors to satisfy specific application requirements

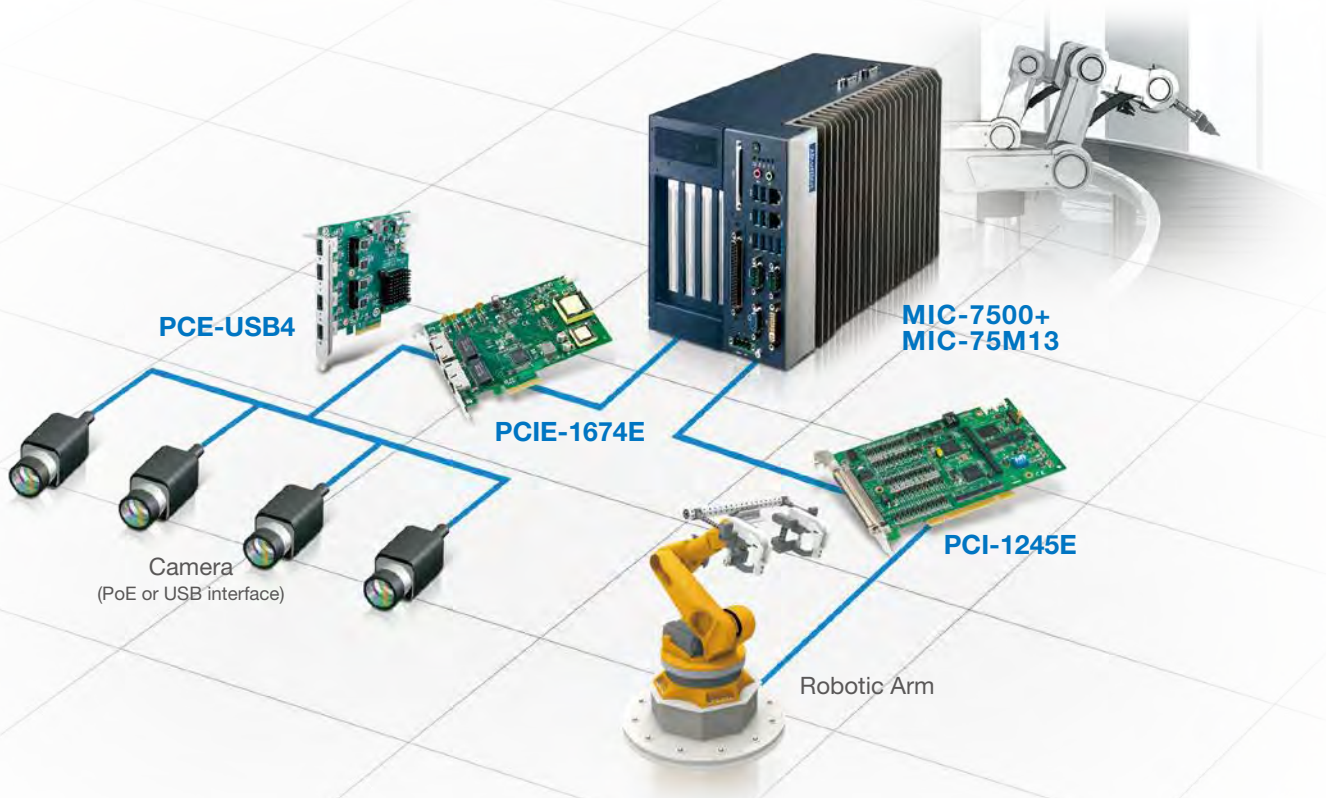
Next-Generation Industrial PCs

MIC-7000 Series

Compact Fanless System with Multiple CPU Options

- Supports i-Modules
- Multiple display options
- Features isolation COM / 32-bit GPIO / Secondary DVI / HDMI
- Multiple CPU options
- 2 x RS-232/422/485 serial ports and 4 x RS-232 (expansion via cable) ports

Vision Guidance Robotics



PCE-USB4

PCI Express x4, 4-Port USB 3.0 Expansion Card

PCIE-1674E

4-Port 10/100/1000 BaseT(X) 802.3af (PoE) Compliant PCI Express Communication Card with Ethernet Ports

PCI-1245

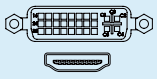
DSP-Based, 4-Axis Stepping/Servo Motor Control Universal PCI Card

Supports Expansion Window

32-bit GPIO

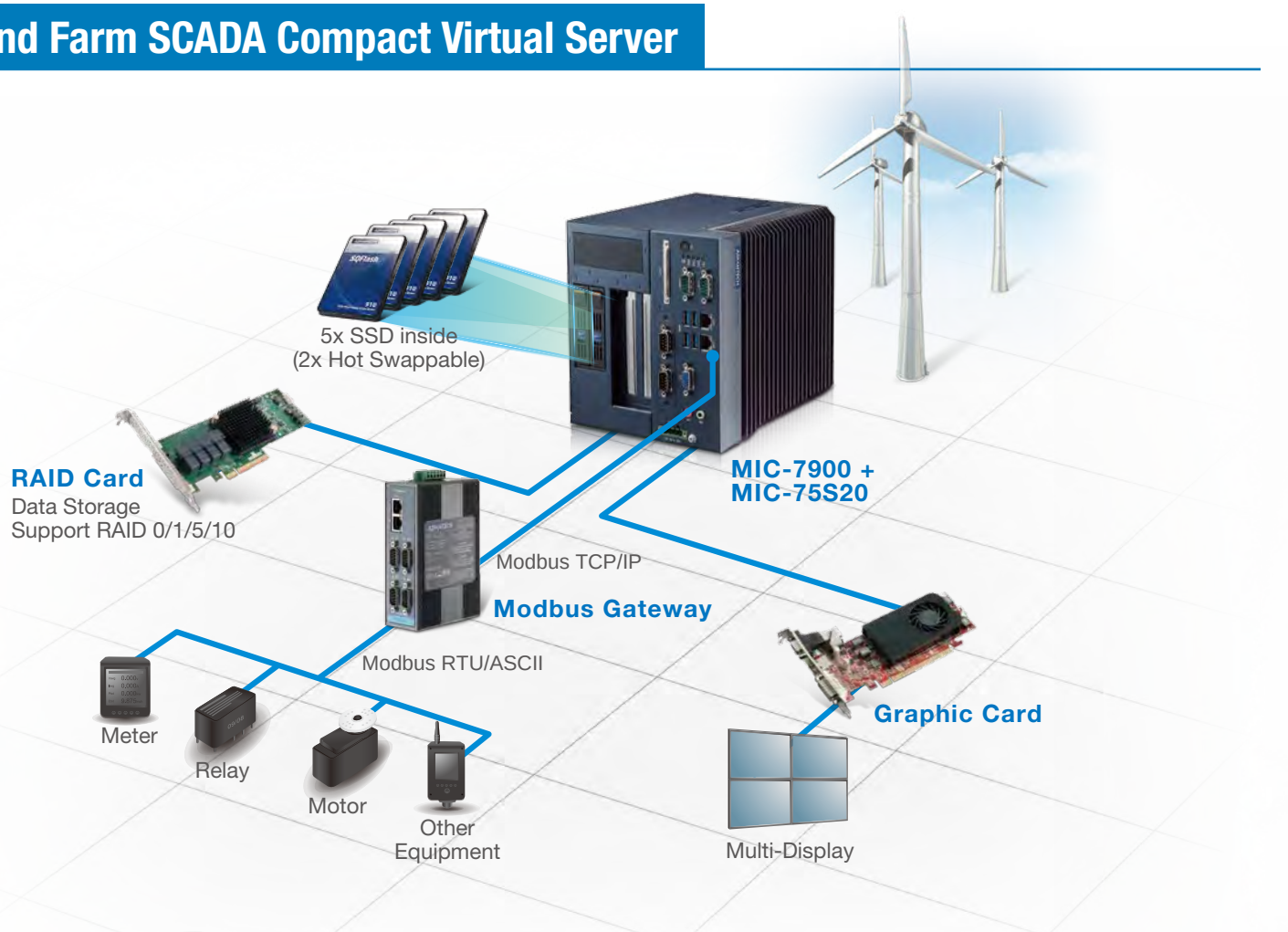
RS-422/485
Isolation

TPM2.0



Secondary
DVI / HDMI

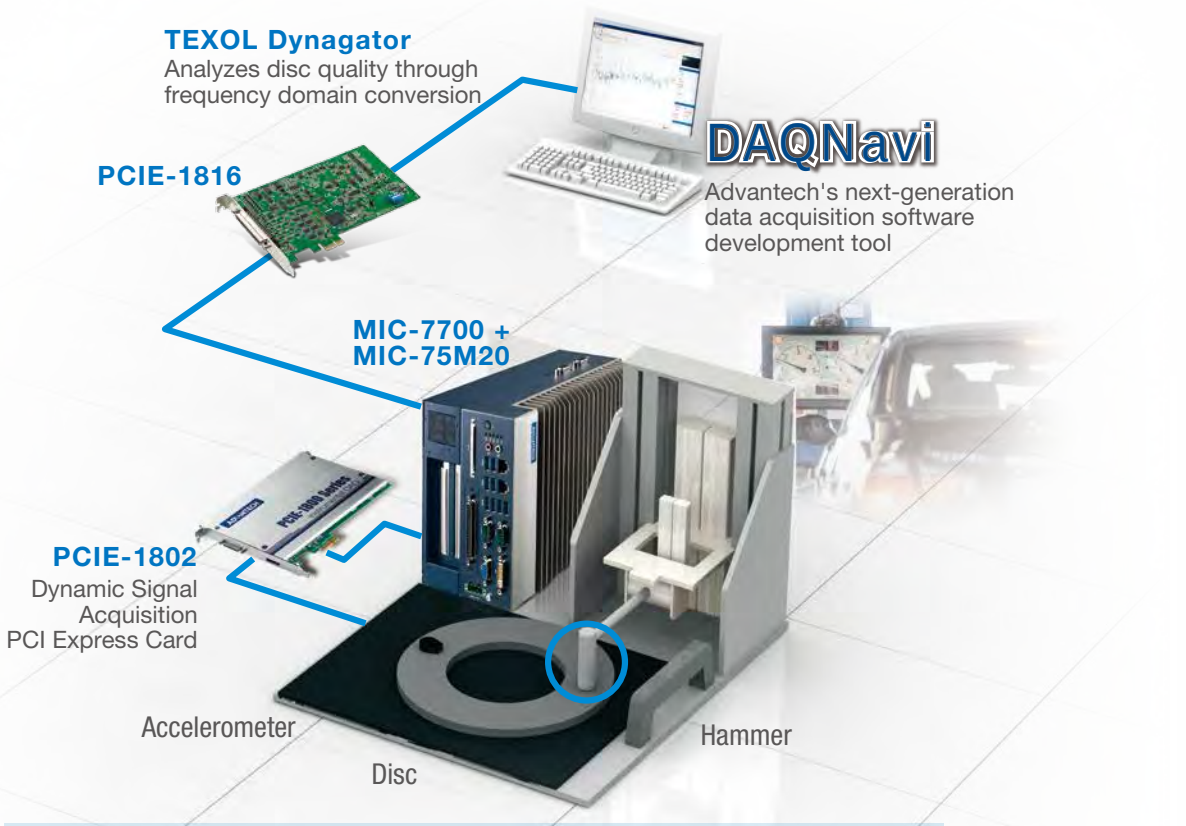
Wind Farm SCADA Compact Virtual Server



EKI-1224-BE

Integration of Modbus TCP and Modbus RTU/ASCII networks
2 x 10/100 Mbps Ethernet ports for LAN redundancy
4-port Modbus Gateway
Software selectable RS-232/422/485 communication

Vehicle Braking Test System



The vibrations generated by the hammer hitting the disc are measured using an accelerometer. This data is then transmitted to PCIE-1802 for analysis.

PCIE-1802

8-Channel, 24-Bit, 216 kS/s
Dynamic Signal Acquisition
PCI Express Card

PCIE-1816

1 MS/s, 16-Bit, 6-Channel
PCI Express Multifunction
DAQ Card

Regional Service & Customization Centers

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