

ASEM 6300B Box PC and 6300T Box Thin Client



Allen-Bradley
by ROCKWELL AUTOMATION

Features and Benefits

Intel Atom Class Box PC and Thin Client

- Intel Apollo Lake Atom processor
- Available with Microsoft® Windows 10 IoT Enterprise 2019 LTSC
- Single DisplayPort units support up to 4K high resolution
- Single DisplayPort unit features 2x Ethernet and 2x USB 3.0 (Type A) ports
- Offers M.2 SSD up to 240 GB (PC Only)
- 4 GB or 8 GB DDR4 RAM
- Fanless, book mount construction, 24V DC
- 0 to 50°C operating temperature
- ThinManager ready and Thin Manager compatible options
- DIN and wall mount kits are available

Intel Core i Class Box PCs

- Core i3, i5 and i7 dual and quad core 7th generation 64 bit processors
- Available with Microsoft Windows 10 IoT Enterprise 2019 LTSC
- No OS version allows customers to load their own custom operating systems
- 4 x Ethernet, 3 x USB 3.0 (Type A), 2 x USB 2.0 (Type A), 1 x RS-232 (DB9M), 1 x DVI-D
- M.2/mSATA and 2.5" SSD up to 1TB SATA III SSD
- Up to 32 GB DDR4 SODIMM modules
- Up to 3 PCIe expansion slots
- Fanless design with book mount, wall mount, 24V DC
- Fan cooled unit with wall mount, 100V/230V AC
- Up to 50°C operating temperature (0°C to 45°C for i7 processors 6300B-PBC* and 6300B-BMB*)



Intel Core i Class Book Mount Box PC



Intel Atom Class Book Mount Box PC and Thin Client



Intel Core i Class Wall Mount Box PC

Allen-Bradley® ASEM™ 6300B Box PCs are available in multiple form factors and processors to match your application. Book mounting units have a fanless design making them optimal for applications requiring low maintenance. The most compact units in this family feature Apollo Lake Atom processors, making them ideal for human machine interface (HMI), IIoT gateway and data logging applications. Atom class units are also available as ThinManager® ready thin clients and are not equipped with an operating system or solid-state drive (SSD).



Slightly larger book mount units feature a choice of Core i3, i5 and i7 processors for mid-size applications.

Wall mount units with Core i3, i5 and i7 processors are available in designs with fans or without. Fan-cooled units perform well in challenging environments with elevated temperatures. These PCs may be paired with FactoryTalk® View SE software to provide the optimal HMI interface experience within the Rockwell Automation® Connected Enterprise.

All PCs come standard with the Windows 10 IoT Enterprise 2019 LTSC operating system. All units are optionally available without an operating system.

Robust mass storage is supplied by an M.2 SSD for Atom class units and RAM is permanently soldered to the motherboard to help prevent issues from shock and vibration.

Atom class, single DisplayPort units currently ship configured as book mount, but do offer kits to leverage DIN rail and wall mounting. Dual DisplayPort units will be offered as book and DIN rail mount options.



**Rockwell
Automation**



ASEM 6300B Box PC and 6300T Box Thin Client Intel Atom Class

Operating system	Microsoft Windows 10 IoT Enterprise LTSC 2019 64 bit
Processor	Intel Atom x7-3950 1.6 GHz (2.0 GHz Burst), 4 cores/4 threads, 2 MB L2 cache)
Video controller	Intel HD Graphics 505 integrated in x7-3950, 500/650MHz
System memory - RAM	4 GB/8 GB, LP-DDR4 - 2400 (soldered)
Mass storage	M.2 size 2242 key B SSD SATA III (up to 240GB)
LAN	2 x Ethernet 10/100/1000 Mbps (Intel I210, RJ45)
USB	Single DisplayPort - 2 x USB 3.0 (Type-A) / Dual DisplayPort - 4 x USB 3.0 (Type-A)
Video output	1x DisplayPort or 2 x DisplayPort (Model Dependent)
Audio output	Standard 3.5mm audio output jack (Only available on Dual Display model)
Power	24V DC (18V to 32V DC) isolated
Mounting	DIN rail mount, wall mount (single Display Port model)
Case material	Aluminum alloy
Operating temperature	0°C to 50°C
Storage temperature	-10°C to +60°C
Approvals	CE (EN 61326-1, EN 61010-1, EN 61010-2-201), cULus LISTED (UL61010), RCM
Humidity	80% (non-condensing)

Note: Thin Client ships without SSD or OS

ASEM 6300B Box PC – Intel Core i Class

	6300B-BMB	6300B-PBC	6300B-PBD		
Operating system	Microsoft Windows 10 IoT Enterprise 2019 64 bit (also available with no OS)				
Processor	Intel Core i3-7100E 2.90GHz 64bit, 2 cores / 4 threads, 3MB Smart Cache	Intel Core i3-7101E 3.9Ghz, 2 Cores - 4 threads - 3MB Smart Cache			
	Intel Core i5-7440EQ, 2.90GHz(3.60GHz Turbo), 6MB Smart Cache, 4 cores, 4 threads	Intel Core i5-7500, 3.40GHz(3.80GHz Turbo)6MB Smart Cache, 4 cores - 4 threads			
	Intel Core i7-7820EQ 3.00GHz(3.70GHz Turbo)64bit, 4 cores / 8 threads, 8MB Smart Cache	Intel Core i7-7700 3.6Ghz(4.2GHz Turbo), 4 Cores - 8 threads - 8MB Smart Cache			
Chipset	Intel HM175 PCH (Platform Controller Hub)	Intel C236 PCH (Platform Controller Hub)			
Video controller	Intel HD Graphics 630 integrated into Intel Core microprocessor 950 MHz/1 GHz Video RAM (shared)		Intel HD 630 Graphics integrated in Intel Core i3 & i5 350 MHz/1.10 GHz		
			Intel HD 630 Graphics integrated in Intel Celeron microprocessor Intel Core i7 350 MHz/1.15 GHz		
System memory - RAM	Up to 32GB DDR4-2400 2 SODIMM modules				
Mass storage	Up to 1TB 2.5" SSD SATA III 1x mSATA SATA III interface	Up to 1TB 2.5" SSD SATA III 1x M.2 2280 onboard connector, PCIe			
LAN	4 x Ethernet 10/100/1000 Mbps (RJ45)				
Video output	1 x DVI-D Single Link (max resolution: 1920x1080 Full HD)				
Power	24V DC (18V to 32V DC) isolated	6300B-PBD*: 100V/230V AC			
Operating temperature	0°C to 50°C with Core i3 processor 0°C to 45°C with Core i7 processor	0°C to 50°C			
Storage temperature	-10°C to +60°C				
Approvals	CE (EN 61326-1, EN 61010-1, EN 61010-2-201), cULus LISTED (UL61010), RCM				
Humidity	80% (non-condensing)				
Watchdog	Time programmable				
Serial	1 x RS-232 (DB9M)				
USB	1 x USB 3.0 front (Type-A) 2 x USB 2.0 top (Type-A) + 2 x USB 3.0 top (Type-A)	3 x USB 3.0 (Type-A) 2 x USB 2.0 (Type-A)	3 x USB 3.0, rear (Type-A) 2 x USB 2.0, rear (Type-A)		
	Fanless, book mounting	Fanless, wall mounting	Fan, wall mounting		
Expansion slots	2 x PCIe x4 (Gen 3)	1 x PCIe x4 (Gen 3)	1 x PCIe x16 + 1 x PCIe x4 + 1 x PCIe x1		

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