

ASEM 6300B Box PC and 6300T Box Thin Client



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

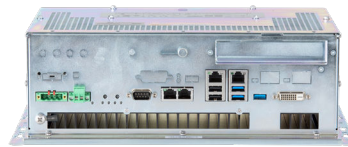
- Core i3, i5 and i7 dual and quad core 7th generation 64 bit processors
- Available with Microsoft Windows 10 IoT Enterprise 2019 LTSC
- No OS version allows customers to load their own custom operating systems
- 4 x Ethernet, 3 x USB 3.0 (Type A), 2 x USB 2.0 (Type A), 1 x RS-232 (DB9M), 1 x DVI-D
- M.2/mSATA and 2.5" SSD up to 1 TB 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.









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 | 1 x 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 i5-7440EQ, 2.90GHz (3.60GHz 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 i3-7101E 3.9Ghz, 2 Cores - 4 threads - 3MB Smart Cache Intel Core i5-7500, 3.40GHz (3.80GHz Turbo) 6MB Smart Cache, 4 cores - 4 threads 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 1 TB 2.5" SSD SATA III 1 x mSATA SATA III interface | | Up to 1 TB 2.5" SSD SATA III 1 x 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) |
| Mounting | 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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