

# ASEM 6300B-JB1

Compact fanless book mounting IPCs  
with Intel® Tiger Lake UP3 platform



- Intel® Celeron® and Core™ processors of the 11th generation SoC Tiger Lake UP3 in embedded and industrial versions with support for real time applications thanks to the reliability and data integrity guarantee of ECC memory
- RAM memory configurable up to 32GB
- Fanless IPC ensuring operation between 0 and 50 °C without the need for mechanical ventilation
- ATX functionality for remote power on and native support for our new Smart UPS (coming soon)
- Storage from 0GB to 2TB with M.2 PCIe NVMe SSDs for maximum read and write speeds
- Up to four DisplayPort++ ports to meet every display need
- Connectivity ensured by the four 2.5 Gigabit Ethernet ports
- Available in two versions to ensure maximum ergonomics
- ThinManager-ready BIOS preinstalled
- FactoryTalk® Remote Access™ remote support software included
- Optional FactoryTalk® Optix™ visualization software
- Complies with Rockwell Automation's Design for Security (DfS) process

FT Remote Access™ INCLUDED  
compatible with UBIQUITY

FT Optix™ OPTIONAL

ECC

FANLESS



AVAILABLE SOON  
WI-FI/BLUETOOTH  
& 5G GLOBAL

DESIGN  
FOR  
SECURITY

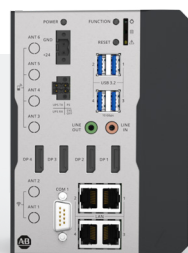


# ASEM 6300B-JB1

## VERSIONS



ASEM 6300B-JB1xxA



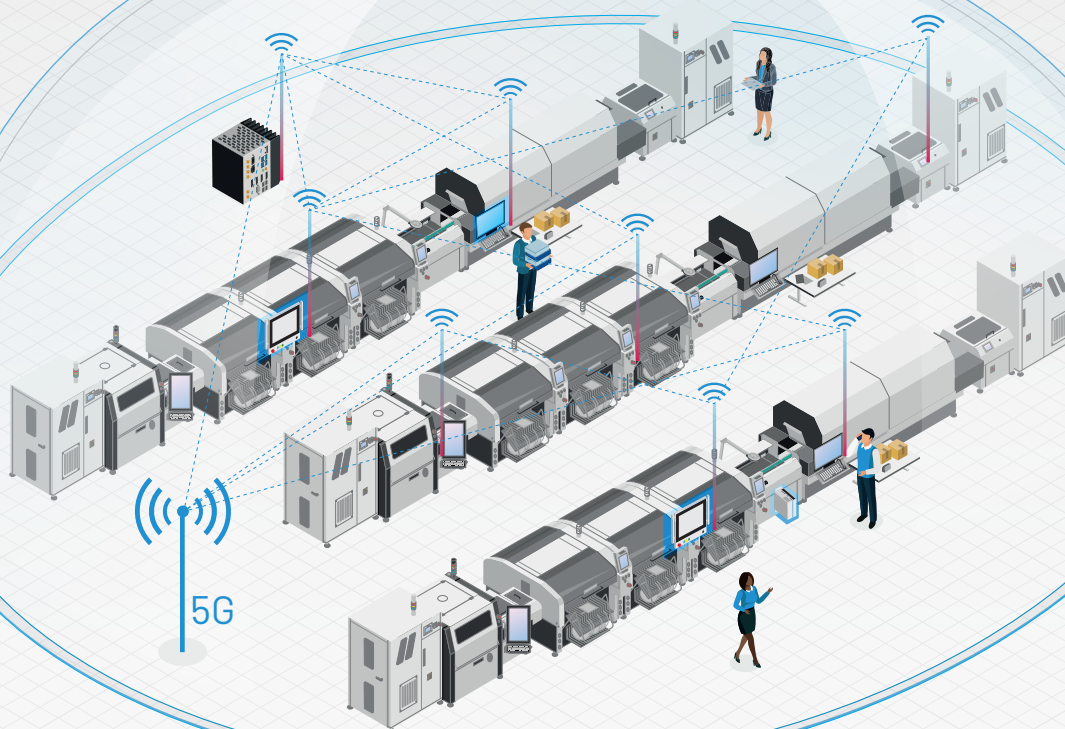
ASEM 6300B-JB1xxB

## AVAILABLE SOON - Wi-Fi6/Bluetooth & 5G global

Extend connectivity with WiFi6/Bluetooth and 5G, suitable for the latest network infrastructures in industrial environments

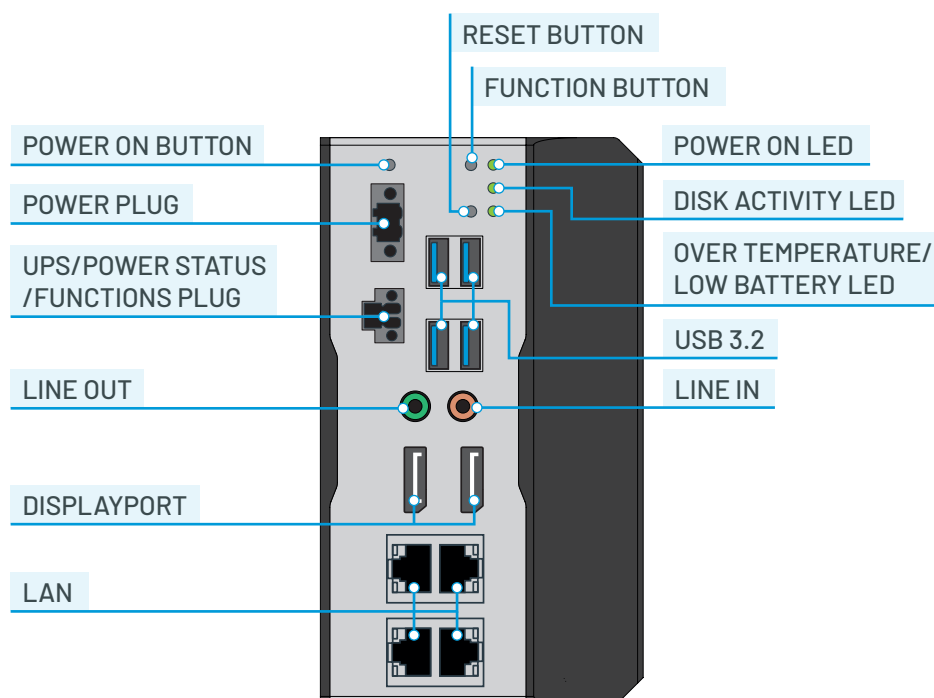
### 5G PRIVATE NETWORK

AVAILABLE  
SOON

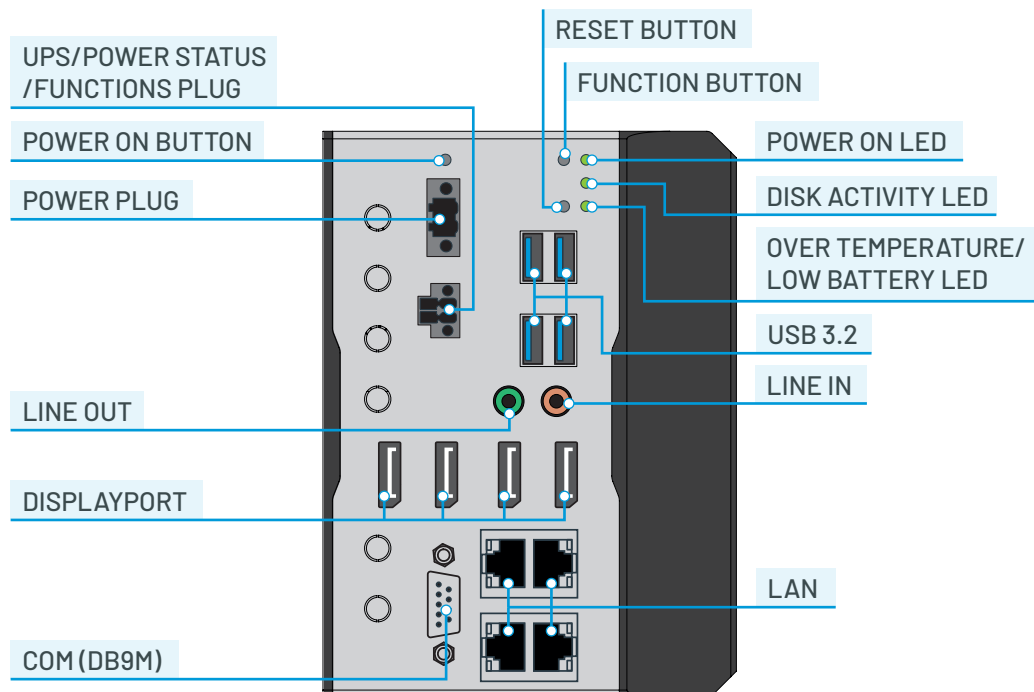


## I/O SHIELDS

### ASEM 6300B-JB1xxA



### ASEM 6300B-JB1xxB

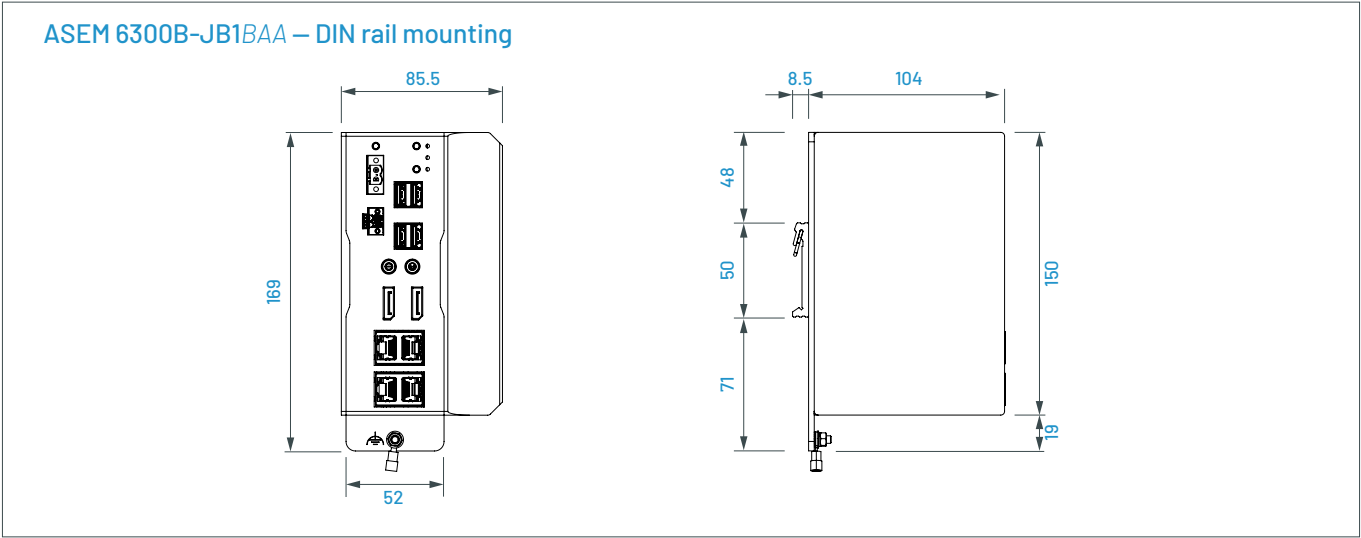
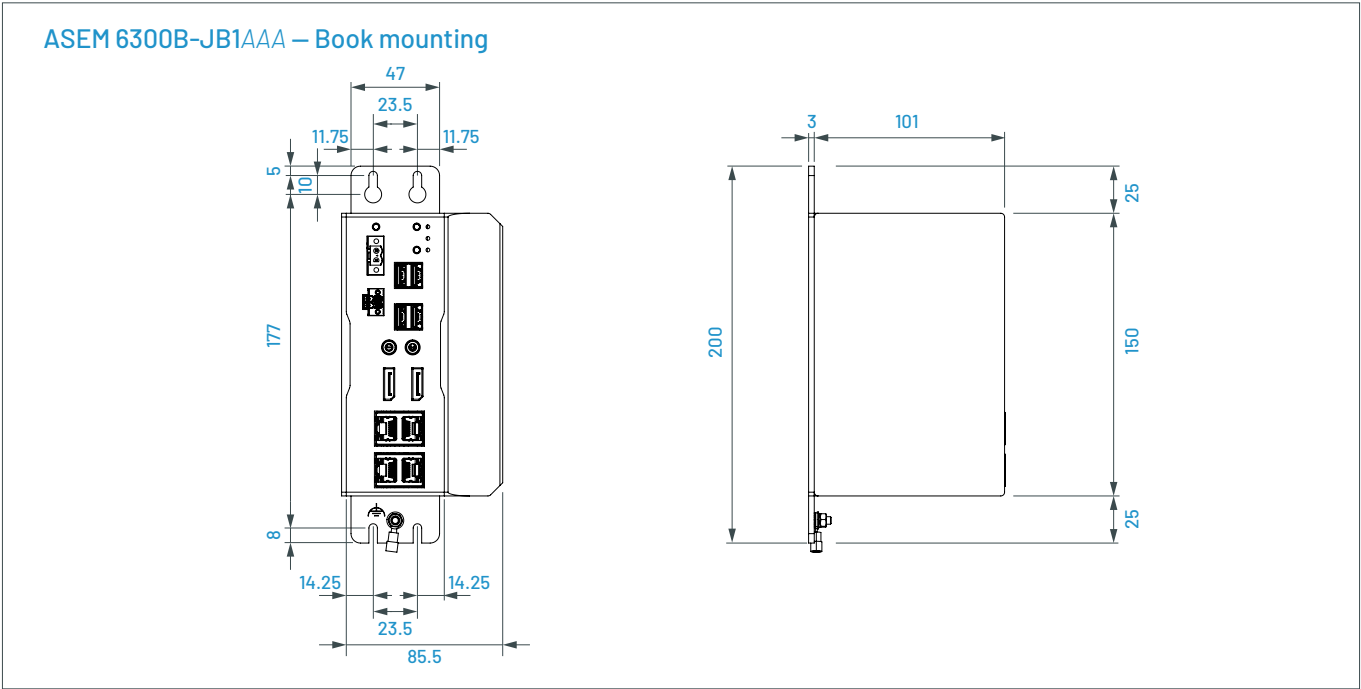


# ASEM 6300B-JB1

## DIMENSIONS

FRONT VIEW

SIDE VIEW

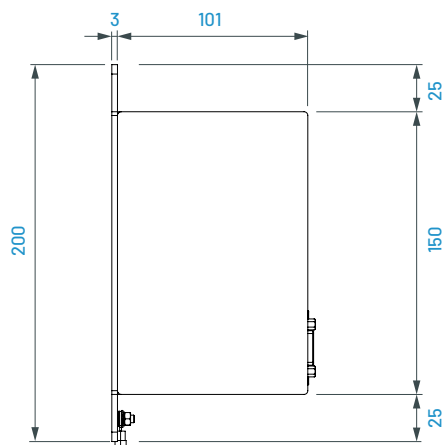
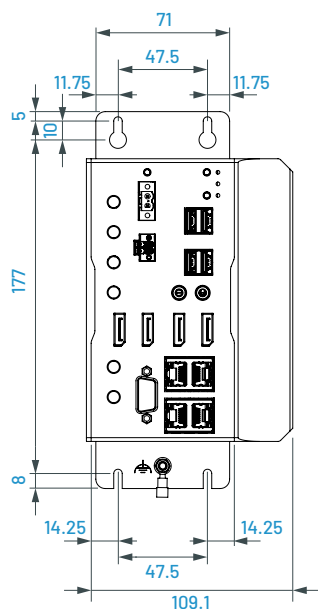


# DIMENSIONS

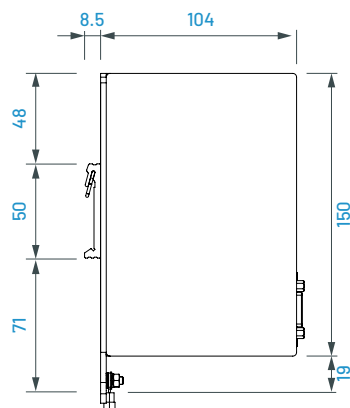
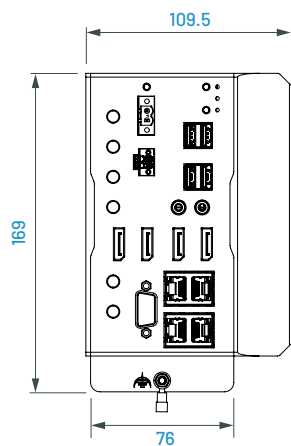
FRONT VIEW

SIDE VIEW

ASEM 6300B-JB1AAB – Book mounting



ASEM 6300B-JB1BAB – DIN rail mounting



## TECHNICAL DATA

| 6300B-JB1                                               |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MODEL                                                   | 6300B-JB1xxA                                                                                                    | 6300B-JB1xxB                                                                                                                                                                                                                                                                                                                                                                       |
| PROTECTION GRADE                                        | IP rating                                                                                                       | IP20                                                                                                                                                                                                                                                                                                                                                                               |
| CASE                                                    | Installation                                                                                                    | Book / DIN rail mounting                                                                                                                                                                                                                                                                                                                                                           |
|                                                         | Material                                                                                                        | Anodized aluminum alloy                                                                                                                                                                                                                                                                                                                                                            |
| DIMENSIONS (w/o mounting)                               | 150x86x101mm                                                                                                    | 150x110x101mm                                                                                                                                                                                                                                                                                                                                                                      |
| PROCESSOR<br>(soldered on-board)                        | CPU Embedded                                                                                                    | Intel® Celeron® 6305E 1.8GHz • 2 cores / 2 threads • 4MB Smart cache • 10nm<br>Intel® Core™ i3-1115G4E 2.20GHz (3.90GHz Burst) • 2 cores / 4 threads • 6MB Smart cache • 10nm<br>Intel® Core™ i5-1145G7E 1.50GHz (4.10GHz Burst) • 4 cores / 8 threads • 8MB Smart cache • 10nm<br>Intel® Core™ i7-1185G7E 1.80GHz (4.40GHz Burst) • 4 cores / 8 threads • 12MB Smart cache • 10nm |
|                                                         | CPU Industrial                                                                                                  | Intel® Core™ i3-1115GRE 2.20GHz (3.90GHz Burst) • 2 cores / 4 threads • 6MB Smart cache • 10nm<br>Intel® Core™ i5-1145GRE 1.50GHz (4.10GHz Burst) • 4 cores / 8 threads • 8MB Smart cache • 10nm<br>Intel® Core™ i7-1185GRE 1.80GHz (4.40GHz Burst) • 4 cores / 8 threads • 12MB Smart cache • 10nm                                                                                |
|                                                         | Chipset                                                                                                         | Intel® Tiger Lake PCH (Platform Controller Hub) • Included into processor chip (SoC)                                                                                                                                                                                                                                                                                               |
|                                                         | Video Controller                                                                                                | Intel® UHD Graphics integrated in Intel® Celeron® and Intel® Core™ i3<br>Intel® Iris® Xe Graphics integrated in Intel® Core™ i5 and i7                                                                                                                                                                                                                                             |
| TPM                                                     | Intel® PTT (TPM integrated)<br>Discrete TPM (optional)                                                          |                                                                                                                                                                                                                                                                                                                                                                                    |
| SYSTEM MEMORY<br>RAM (soldered on-board)                | Intel® Celeron®                                                                                                 | 4GB (LPDDR4x)<br>8GB (LPDDR4x)                                                                                                                                                                                                                                                                                                                                                     |
|                                                         | Intel® Core i3-1115G4E<br>Intel® Core i5-1145G7E                                                                | 8GB (LPDDR4x)<br>16GB (LPDDR4x)                                                                                                                                                                                                                                                                                                                                                    |
|                                                         | Intel® Core i7-1185G7E                                                                                          | 16GB (LPDDR4x)<br>32GB (LPDDR4x)                                                                                                                                                                                                                                                                                                                                                   |
|                                                         | Intel® Core i3-1115GRE                                                                                          | 8GB (LPDDR4x)                                                                                                                                                                                                                                                                                                                                                                      |
|                                                         | Intel® Core i5-1145GRE                                                                                          | 16GB (LPDDR4x)                                                                                                                                                                                                                                                                                                                                                                     |
|                                                         | Intel® Core i7-1185GRE                                                                                          | 32GB (LPDDR4x)                                                                                                                                                                                                                                                                                                                                                                     |
|                                                         |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                    |
| MASS STORAGE                                            | SSD M.2                                                                                                         | 1x onboard connector for direct insertion of M.2 NVMe PCIe x2 SSD (up to 2TB)                                                                                                                                                                                                                                                                                                      |
| INTERFACES                                              | LAN                                                                                                             | 4x 2.5 Gigabit Ethernet (RJ45)                                                                                                                                                                                                                                                                                                                                                     |
|                                                         | USB                                                                                                             | 4x USB 3.2 Gen2 (Type-A) 10Gbps                                                                                                                                                                                                                                                                                                                                                    |
|                                                         | SERIAL                                                                                                          | -<br>1x RS232/422/485 isolated (DB9M)                                                                                                                                                                                                                                                                                                                                              |
|                                                         | VIDEO                                                                                                           | 2x DisplayPort++ v1.4a<br>4x DisplayPort++ v1.4a                                                                                                                                                                                                                                                                                                                                   |
|                                                         | AUDIO                                                                                                           | 1x Line-Out Audio Stereo<br>1x Mic-In                                                                                                                                                                                                                                                                                                                                              |
|                                                         |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                    |
| NOVRAM (optional)                                       | 256kB MRAM module for retentive variables                                                                       |                                                                                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY INPUT                                      | 24VDC (18÷32VDC) isolated                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY ADD-ON FUNCTIONS<br>(selectable from BIOS) | Remote Power Button<br>1x output signal Power Status + 1x input signal System Off                               |                                                                                                                                                                                                                                                                                                                                                                                    |
| BATTERY                                                 | 1x CR2032 Internal access                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                    |
| O.S. CERTIFIED                                          | Microsoft Windows 10 IoT Enterprise LTSC 2021 64 bit                                                            |                                                                                                                                                                                                                                                                                                                                                                                    |
| OPERATING TEMPERATURE                                   | 0°C ÷ 50°C                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                    |
| STORAGE TEMPERATURE                                     | -20°C ÷ 65°C                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                    |
| OPERATING/STORAGE RELATIVE HUMIDITY                     | 20% ÷ 90% RH (at 25°C, non-condensing)                                                                          |                                                                                                                                                                                                                                                                                                                                                                                    |
| APPROVALS                                               | CE<br>UKCA<br>cULus Listed<br>Cmim - Morocco<br>KCC - Korea<br>RCM - Australia and New Zealand<br>REACH<br>RoHS |                                                                                                                                                                                                                                                                                                                                                                                    |