



ASEM 6300B-JB1 Compact Box PC and 6300T Thin Clients

Bulletin 6300B, 6300T, Family JB1

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This publication provides technical specifications, environmental specifications, certifications, and dimensions for the Allen-Bradley® ASEM™ 6300B-JB1 Box PCs and 6300T-JB1 Thin Clients.

Use this document with the Visualization Solutions Selection Guide, publication [VIEW-S6002](#), to make initial decisions about the operator panels for visualization products that are best suited for your system requirements.

Terminology

ASEM 6300B-JB1 Box PCs and 6300T-JB1 Thin Clients are configurable, with many possible valid catalog numbers. To aid in readability, we refer to devices by the first several characters only. For example, 6300B-JB1 applies to all catalog numbers that begin with these characters (6300B-JB1, and so on).

ASEM 6300T-JB1 is the Thin Client version of the same system.

6300B-JB1 Compact Box PCs and 6300T-JB1 Thin Clients Comparison



Specification		6300B-JB1xAA / 6300T-JB1xAA	6300B-JB1xAB / 6300T-JB1xAB
Protection Grade	IP rating	IP20	
Case	Installation	Book / DIN Rail mounting	
	Material	Anodized aluminum alloy	
Mass storage	SSD M.2	1 x onboard connector for direct insertion of M.2 NVMe PCIe SSD (up to 2 TB)	
Interfaces	LAN	4 x 2.5 Gigabit Ethernet (RJ45)	
	USB	4 x USB 3.2 Gen 2 (Type-A) 10 Gbps	
	Serial	-	1 x RS232/422/485 isolated (DB9M)
	Video	2 x DisplayPort++ V1.4a	4 x DisplayPort++ V1.4a
	Audio	1 x Line-Out Audio Stereo 1 x Mic.-In	
NOVRAM (optional)		512 kB MRAM module for retentive variables	
Power supply input		24V DC (18...32V DC) isolated	
Battery		1x CR2032 Internal access	

Notes:

Catalog Number Explanation

Examples that are given in this section are not intended to be used for product selection. Not all combinations generate a valid catalog number. Use ProposalWorks™ software to configure the PC. ProposalWorks software is available from rok.auto/systemtools.

6300B - JB1 A A A - A A N A A A - N N N
a b c d e f g h i j k l

a	
Mount Type	
Code	Description
A	Book Mount
B	DIN Rail

b	
Power	
Code	Description
A	24V DC

c	
System Configuration	
Code	Description
A	2 DisplayPort
B	Serial Port, 4 DisplayPort

d	
Processor Class	
Code	Description
A	Celeron
B	Core i3-1115 G4E
C	Core i5-1145 G7E
D	Core i7-1185 G7E
E	Core i3-1115 GRE
F	Core i5-1145 GRE
G	Core i7-1185 GRE

e	
RAM	
Code	Description
A	4GB
B	8GB
C	16GB
D	32GB

f	
Storage	
Code	Description
N	No Storage
A	128 GB M.2 SSD (NMVe)
B	256 GB M.2 SSD (NMVe)
C	512 GB M.2 SSD (NMVe)
D	1 TB M.2 SSD (NMVe)
E	2 TB M.2 SSD (NMVe)

g	
TPM	
Code	Description
N	None
A	fTPM (BIOS)
B	dTPM (BIOS)

h	
Novram	
Code	Description
N	None
A	512Kb NOVRAM (MRAM)

i	
Operating System	
Code	Description
N	None
A	Windows® 10 IoT Enterprise LTSC 2021

j	
Remote Ass SW	
Code	Description
N	No software

k	
APP Software	
Code	Description
N	No software

l	
Optix License	
Code	Description
N	No software

Specifications

Table 1 - Environmental Specifications

Attribute		Values
Ambient Temperature	operating	0...50 °C (32...122 °F)
	storage	-20...+65 °C (-4...+149 °F)
	non operating	-25...+70 °C (-13...+158 °F)
Operation/Storage relative humidity		20%...90% RH @ 25 °C (77 °F) non-condensing
Max. Altitude, operating		2000 m (6562 ft)
Vibration (EN 60068-2-6:2008-02 Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal))	Frequency range	10.00 Hz to 500.00 Hz
	Sweep rate	1 octave / min
	Number of sweep cycles	5 / axis (56' 27")
	Displacement	0.3048 mm p-p (10.00 Hz to 57 Hz)
	Acceleration	0-p: 2.0 g (57 Hz to 500.00 Hz)
Shock (En 60068-2-27:2009-05, Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock) Shape of rated mechanical stress: Half-Sine	operating	15 g (acceleration) at 11 ms (duration)
	non operating	30 g (acceleration) at 11 ms (duration)

Table 2 - Standards Compliance and Certifications

Certification	Value
CE (EMC)	European Union 2014/30/EU EMC Directive, compliant with: EN 61326-1; Electrical equipment for measurement, control and laboratory use.
UKCA	2016 No. 1091 Electromagnetic Compatibility Regulations (EMC). 2012 No. 3032 Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations (RoHS). EN 61326-1:2021 Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements.
cULus	cULus Listed Industrial Control Equipment for use in Ordinary Location per standards ANSI/UL 61010-1 and ANSI/UL 61010-2-201 for USA and CSA C22.2 NO. 61010-1, CSA C22.2 No. 61010-2-201 for Canada.
Cmim - Morocco	Arrêté ministériel n° 6404-15 NM EN 61326-1
KC - Korea	Registered under the Clause 3, Article 58-2 of Radio Waves Act. R-R-RAA-JB1.
RCM - Australia and New Zeland	Australian Radio Communications Act, compliant with: EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements.
REACH	EU REACH regulation (EC) No 1907/2006
RoHS	China RoHS, Turkey RoHS, European RoHS, UKCA RoHS

Table 3 - Technical Data 6300B-JB1

Specification		6300B-JB1xAA	6300B-JB1xAB
Protection Grade	IP rating	IP20	
Case	Installation	Book / DIN Rail mounting	
	Material	Anodized aluminum alloy	
Processor (soldered on-board)	Embedded	Intel® Celeron® 6305E 1.8 GHz • 2 cores / 2 threads • 4 MB Smart cache • 10 nm Intel® Core™ i3-1115 G4E 2.20 GHz (3.90 GHz Burst) • 2 cores / 4 threads • 6 MB Smart cache • 10 nm Intel® Core™ i5-1145 G7E 1.50 GHz (4.10 GHz Burst) • 4 cores / 8 threads • 8 MB Smart cache • 10 nm Intel® Core™ i7-1185 G7E 1.80 GHz (4.40 GHz Burst) • 4 cores / 8 threads • 12 MB Smart cache • 10 nm Intel® Core™ i3-1115 GRE 2.20 GHz (3.90 GHz Burst) • 2 cores / 4 threads • 6 MB Smart cache • 10 nm Intel® Core™ i5-1145 GRE 1.50 GHz (4.10 GHz Burst) • 4 cores / 8 threads • 8 MB Smart cache • 10 nm Intel® Core™ i7-1185 GRE 1.80 GHz (4.40 GHz Burst) • 4 cores / 8 threads • 12 MB Smart cache • 10 nm	
Chipset		Intel® Tiger Lake PCH (Platform Controller Hub) • Included into processor chip (SoC)	
Video controller		Intel® UHD Graphics integrated in Intel® Celeron®, Intel® Core™ i3 Intel® Iris® X• Graphics integrated in Intel® Core™ i5 and i7	
TPM		Intel® PTT (TPM integrated) - Discrete TPM (optional)	

Table 3 - Technical Data 6300B-JB1

Specification		6300B-JB1xAA	6300B-JB1xAB
System memory RAM	Intel® Celeron®	4 GB (LPDDR4X) 8 GB (LPDDR4X)	
	Intel® Core™ i3	8 GB (LPDDR4X) 16 GB (LPDDR4X)	
	Intel® Core™ i5		
	Intel® Core™ i7	16 GB (LPDDR4X) 32 GB (LPDDR4X)	
Mass storage	SSD M.2	1 x onboard connector for direct insertion of M.2 NVMe PCIe SSD (up to 2TB)	
Interfaces	LAN	4 x 2.5 Gigabit Ethernet (RJ45)	
	USB	4 x USB 3.2 Gen 2 (Type-A) 10 Gbps	
	Serial	-	1 x RS232/422/485 isolated (DB9M)
	Video	2 x DisplayPort++ V1.4a	4 x DisplayPort++ V1.4a
	Audio	1 x Line-Out Audio Stereo 1 x Mic.-In	
NOVRAM (optional)		512 kB MRAM module for retentive variables	
Power supply input		24V DC (18...32V DC) isolated	
Battery		1x CR2032 Internal access	
O.S.Certified		Microsoft Windows 10 IoT Enterprise LTSC 2021 64 bit	

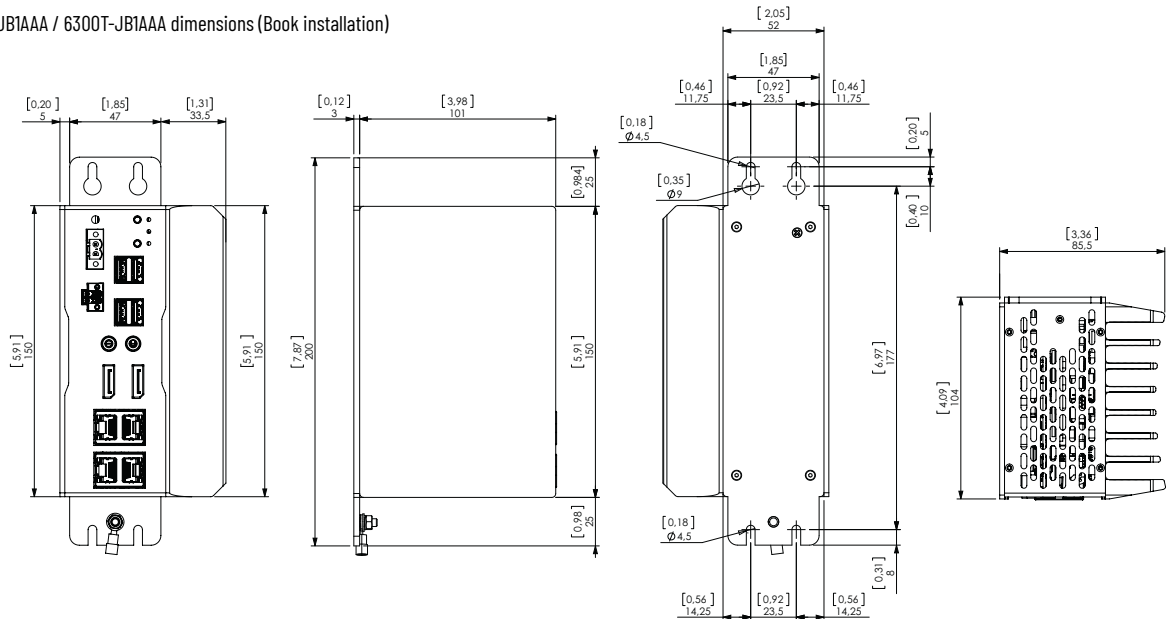
Table 4 - Technical Data 6300T-JB1

Specification		6300B-JB1xAA	6300B-JB1xAB
Protection Grade	IP rating	IP20	
Case	Installation	Book / DIN Rail mounting	
	Material	Anodized aluminum alloy	
Processor (soldered on-board)	Embedded	Intel® Celeron® 6305E 1.8 GHz • 2 cores / 2 threads • 4 MB Smart cache • 10 nm	
Chipset		Intel® Tiger Lake PCH (Platform Controller Hub) • Included into processor chip (SoC)	
Video controller		Intel® UHD Graphics integrated in Intel® Celeron®, Intel® Core™ i3 Intel® Iris® X• Graphics integrated in Intel® Core™ i5 and i7	
System memory RAM		4 GB (LPDDR4X) 8 GB (LPDDR4X)	
Interfaces	LAN	4 x 2.5 Gigabit Ethernet (RJ45)	
	USB	4 x USB 3.2 Gen 2 (Type-A) 10 Gbps	
	Serial	-	1 x RS232/422/485 isolated (DB9M)
	Video	2 x DisplayPort++ V1.4a	4 x DisplayPort++ V1.4a
	Audio	1 x Line-Out Audio Stereo 1 x Mic.-In	
Power supply input		24V DC (18...32V DC) isolated	
Battery		1x CR2032 Internal access	

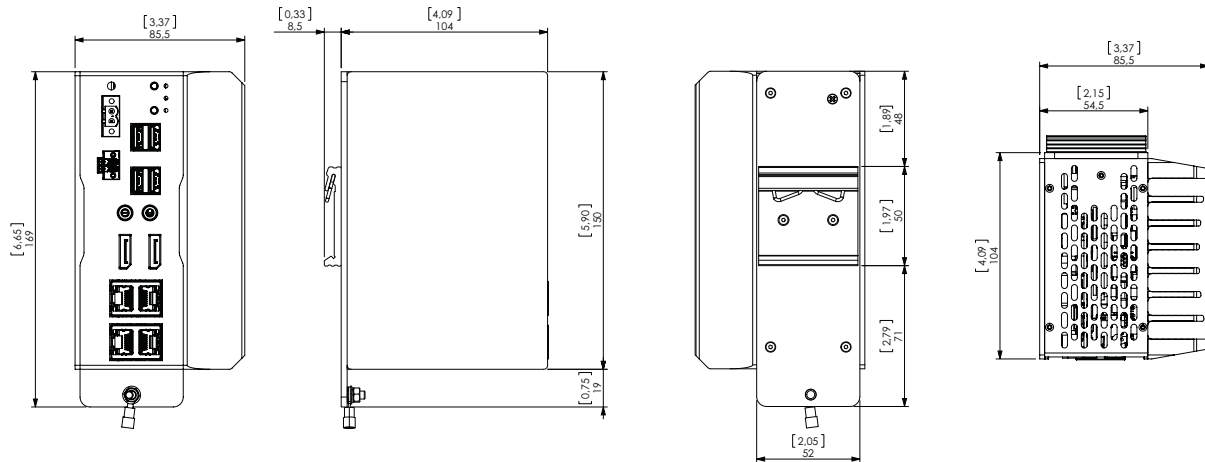
Approximate Dimensions

Dimensions are in mm (inches). Dimensions are not intended to be used for manufacturing purposes.

6300B-JB1AAA / 6300T-JB1AAA dimensions (Book installation)



6300B-JB1BAA / 6300T-JB1AAA dimensions (DIN Rail installation)



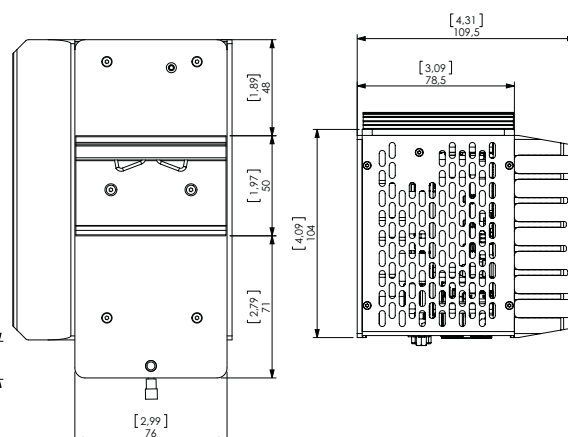
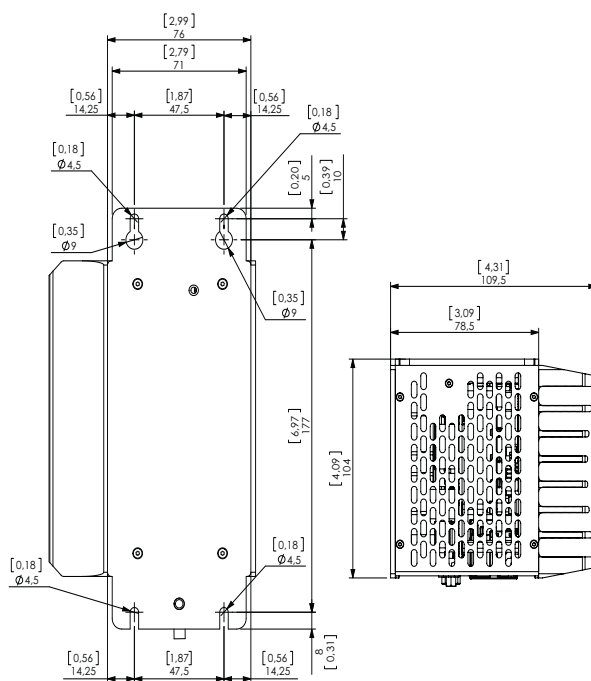
Technical drawings of the 1000 Series 1U Rack Mountable Power Supply, showing front and side views with dimensions in inches and millimeters.

Front View Dimensions:

- Top mounting holes: $[0.20]$ 5
- Top panel width: $[2.79]$ 71
- Top panel depth: $[0.10]$ 2.5
- Top panel height: $[1.22]$ 31
- Front panel height: $[5.91]$ 150

Side View Dimensions:

- Top mounting holes: $[0.12]$ 3
- Top panel width: $[3.98]$ 101
- Front panel height: $[5.91]$ 150
- Side panel height: $[0.98]$ 25
- Bottom panel height: $[0.98]$ 25
- Overall height: $[7.87]$ 200



Additional Resources

These documents contain additional information concerning related products from Rockwell Automation. You can view or download publications at rok.auto/literature.

Resource	Description
ASEM 6300B-JB1 Compact Box PCs and 6300T Thin Clients User Manual, publication 6300B-UM004	Provides details on how to install, configure, operate, and troubleshoot the ASEM 6300B-JB1 Compact Box PCs and 6300T Thin Clients.
ASEM 6300B-JB1 Compact Box PCs and 6300T Thin Clients Installation Instructions, publication 6300B-IN004	Provides basic installation guidelines and instructions for 6300B-JB1 box PCs and 6300T Thin Clients.
ProposalWorks™ configuration software, rok.auto/systemtools	Helps configure complete, valid catalog numbers and build complete quotes based on detailed product information.
Product Certifications website, rok.auto/certifications	Provides declarations of conformity, certificates, and other certification details.

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates.	rok.auto/support
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Technical Documentation Center	Quickly access and download technical specifications, installation instructions, and user manuals.	rok.auto/techdocs
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

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Publication 6300B-TD004A-EN-P - May 2025

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