



BM100

fanless

Industrial Automation - Products & Configurations

BM100-B BASIC SYSTEM (WALL BOOK MOUNT)		POWER [W]
Basic configuration	Intel® Atom® dual core x5-E3930 1,30 GHz • 4GB RAM • fanless • wall book mount • 24V DC isolated power supply • UBIQUITY BASIC Win32/64 runtime • 12 months warranty	14

BM100-D BASIC SYSTEM (DIN BOOK MOUNT)		POWER [W]
Basic configuration	Intel® Atom® dual core x5-E3930 1,30 GHz • 4GB RAM • fanless • DIN book mount • 24V DC isolated power supply • UBIQUITY BASIC Win32/64 runtime • 12 months warranty	14

BASE BM100-W BASIC SYSTEM (WALL MOUNT)		POWER [W]
Basic configuration	Intel® Atom® dual core x5-E3930 1,30 GHz • 4GB RAM • fanless • wall mount • 24V DC isolated power supply • UBIQUITY BASIC Win32/64 runtime • 12 months warranty	14

REMOTE ASSISTANCE	B	D	W		
	•	•	•	ASEM UBIQUITY BASIC Win32/64 runtime	

PROCESSOR	B	D	W		
	•	•	•	Intel® Atom® x5-E3930 • 1,30 GHz (1,8 GHz Burst), 2MB smart cache • 2 cores, 2 threads • Soldered on board	
	•	•	•	Intel® Atom® x7-E3950 • 1,60 GHz (2,00 GHz Burst), 2MB smart cache • 4 cores, 4 threads • Soldered on board	+ 7

RAM MEMORY	B	D	W		
	•	•	•	2 GB LP-DDR4 • Soldered on board	+ 0
	•	•	•	4 GB LP-DDR4 • Soldered on board	
	•	•	•	8 GB LP-DDR4 • Soldered on board	+ 2

MOUNTING	B	D	W		
	•	•	•	Wall book mounting kit	
	•	•	•	DIN rail book mounting kit	
	•	•	•	Wall mounting kit	

OPTIONS

SSD M.2	B	D	W		POWER [W]
	•	•	•	SSD M.2 onboard connector, SATA III, 6Gb/s (Solid State Disk), MLC/TLC	2

MOUNTING KIT	B	D	W		
	•	•	•	DIN rail book mounting kit • sold separately	-
	•	•	•	Wall book mounting kit • sold separately	-
	•	•	•	Wall mounting kit • sold separately	-

DisplayPort™/DVI CABLES AND ADAPTERS > note 1	B	D	W		
	•	•	•	Passive DisplayPort™/DVI adapter cable (F) • length 40cm • DVI cable (M/M) maximum length 5m	-
	•	•	•	Kit cables 2m (passive adapter DisplayPort™ /DVI-D 2m / USB 2.0 2m) • with ferrite beads	-
	•	•	•	Kit cables 5m (passive adapter DisplayPort™ /DVI-D 5m / USB 2.0 5m) • with ferrite beads	-

WARRANTY EXTENSION	B	D	W		
	•	•	•	Warranty extension to 18 months	
	•	•	•	Warranty extension to 24 months	
	•	•	•	Warranty extension to 36 months	

NOTES

The power consumptions are calculated considering the maximum absorbed power of each component. The power values does not include the absorbed power of USB devices

1: With passive adapter cable the maximum resolution supported is 1920x1080 (FHD)

TECHNICAL SPECIFICATIONS

Case	Anodized aluminum for book, DIN rail or wall mounting
Overall dimensions & weight	See details on the related section
Power supply	24VDC Isolated • Input voltage 18÷32V DC
Motherboard	"All-In-One" type • ASEM 962
Watch dog	Time programmable
Intel platform Processor	Intel® Atom® dual and quad core up to 12W • Intel® Apollo Lake®
O.S.	Microsoft Windows 10 IoT Enterprise 2016 64bit
O.S. certified by ASEM	Other operating systems, such as Linux, VxWorks, QNX, etc. have not been certified by ASEM but they are reasonably supported by the Intel platform after verification of compatibility
O.S. not supported by Intel platform	Microsoft 8.1 / 7 / Windows XP / 2000 / 98 / Microsoft Windows CE 5 / 6 / 7
Software Remote assistance	ASEM UBIQUITY BASIC Win32/64 runtime license with ASEM sticker
Video Controller	Intel® HD Graphics 500 integrated into Intel® Atom™ x5-E3930 microprocessor • 400MHz / 550MHz Intel® HD Graphics 505 integrated into Intel® Atom™ x7-E3950 microprocessor • 500MHz / 650MHz
Video RAM (shared)	Dynamic Video Memory Technology • Memory quantity is automatically selected by operating system • Maximum memory depends on the OS version
System memory	LP-DDR4-2133/2400 type • soldered on-board • min 2GB • max 8GB
Mass storage	1 x onboard connector M.2 key B for SSD M.2 size 2242 SATA III, 6Gb/s
Front signalling (LED)	Power ON • SSD activity • Over temperature / Battery fault • Watchdog
Front buttons	System Reset • Watchdog Reset
Front I/F	2 x Ethernet 10/100/1000 Mbps (RJ45), 2 x Intel® I210 • 2 x USB 3.0 (Type A, max 0.9A) • 1 x DisplayPort™+ v1.2 (max resolution: 4096x2160@60Hz)
Environmental specifications	Operating temperature: 0° ÷ +55°C, 0° ÷ +50°C with x7-E3950 Storage temperature: -10° ÷ +60°C • Humidity: 80% (non-condensing)
Approvals	CE (EN 55022, EN 61000-3-2/3, EN 55024, EN 60950-1) • cULus LISTED (UL 61010) pending
Standard warranty	12 months • Warranty management by ASEM headquarters

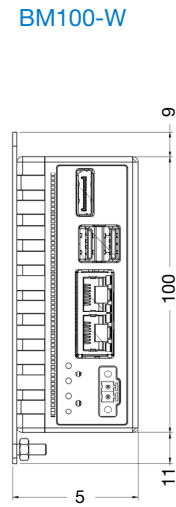
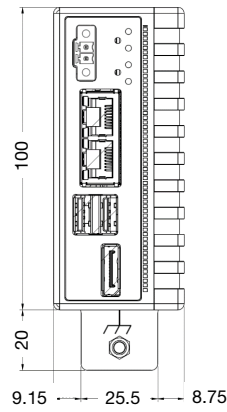
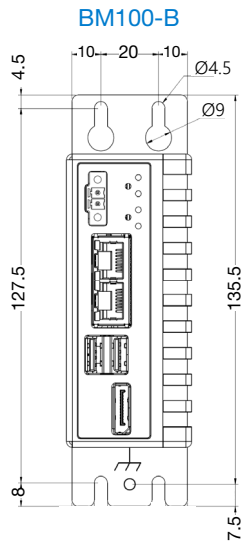


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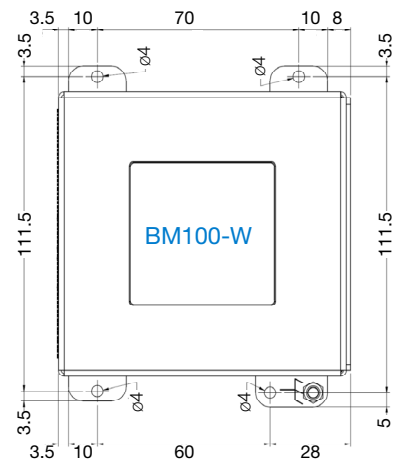
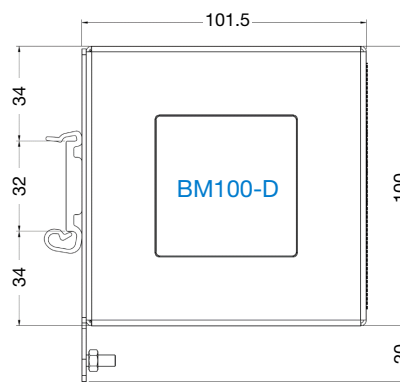
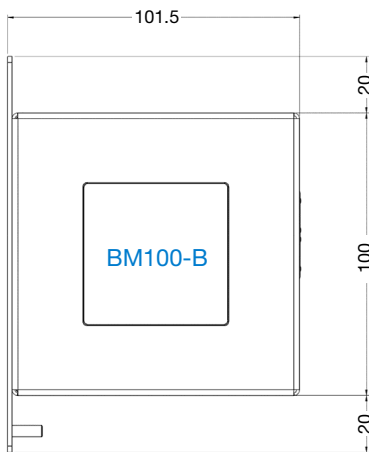
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DIMENSIONS (mm)

FRONT VIEWS



SIDE VIEWS



CONNECTORS VIEW

