BM3300
fanless

Industrial Automation - Products & Configurations
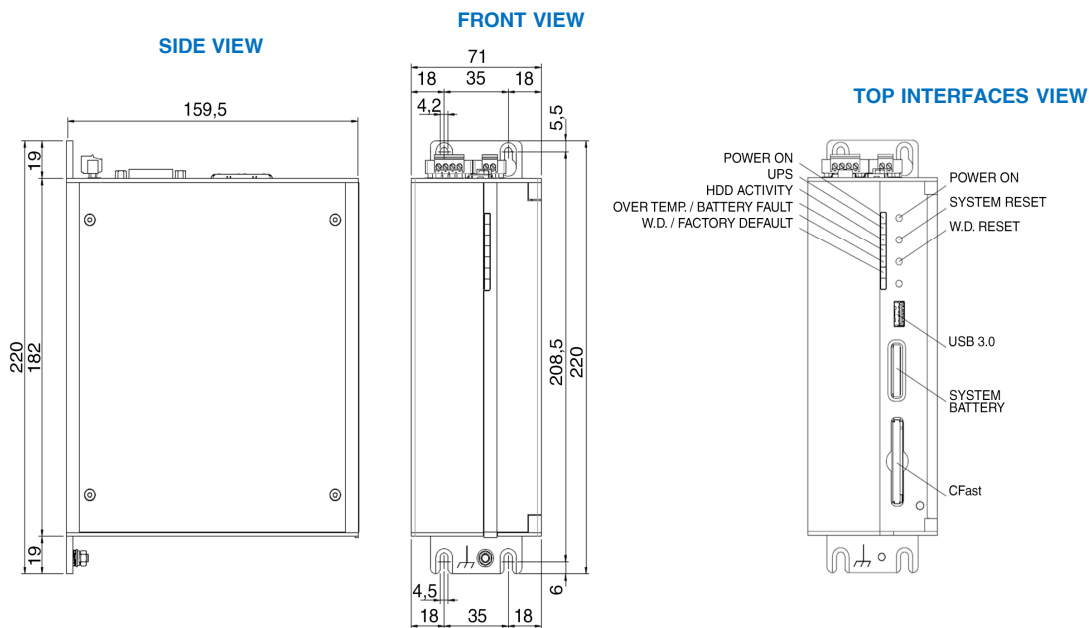
BM3300 BASIC SYSTEM	POWER [W]
Basic Configuration — Intel® Celeron® dual core 3955U 2,00 GHz ▪ 4GB RAM ▪ fanless ▪ DVI-D video output ▪ 24V DC isolated power supply ▪ UBIQUITY BASIC Win32/64 runtime ▪ 12 month warranty	30

BM3300 RVL BASIC SYSTEM	POWER [W]
Basic Configuration — Intel® Celeron® dual core 3955U 2,00 GHz ▪ 4GB RAM ▪ fanless ▪ Remote Video Link, remotation (TX) of DVI-D video signals and USB 2.0 up to 100 m ▪ 24V DC isolated power supply ▪ UBIQUITY BASIC Win32/64 runtime ▪ 12 months warranty	34

	-	RVL			POWER [W]
REMOTE ASSISTANCE	●	●	ASEM UBIQUITY BASIC Win32/64 runtime		
PROCESSOR	●	●	Intel® Celeron® 3955U ▪ 2,00 GHz, 2MB smart cache ▪ 2 cores, 2 threads ▪ Soldered on-board		
	●	●	Intel® Core® i3-6100U ▪ 2,30 GHz, 3MB smart cache ▪ 2 cores, 4 threads ▪ Soldered on-board		+ 0
	●	●	Intel® Core® i5-6300U ▪ 2,40 GHz (3,00 GHz Turbo), 3MB smart cache ▪ 2 cores, 4 threads ▪ Soldered on-board		+ 13
	●	●	Intel® Core® i7-6600U ▪ 2,60 GHz (3,40 GHz Turbo), 4MB smart cache ▪ 2 cores, 4 threads ▪ Soldered on-board		+ 13
RAM MEMORY	●	●	4 GB ▪ 1 module SODIMM DDR4-2133		
	●	●	8 GB ▪ 1 module SODIMM DDR4-2133		+ 1
	●	●	16 GB ▪ 1 module SODIMM DDR4-2133		+ 3
INTERNAL PSU	●	●	Without UPS (uninterruptible power supply)		
	●	●	With UPS (uninterruptible power supply) ▪ integrated in power supply section ▪ batteries kit not included **> note 1**		+ 1
EXTERNAL MONITOR OUTPUT	●		DVI-D (Single Link) video interface for external monitor ▪ Max resolution 1920x1080 FullHD		
		●	Remote Video Link integrated ▪ remotation up to 100m of DVI-D video signals and USB 2.0 ▪ without cables **> note 2**		

OPTIONS	-	RVL			POWER [W]
TPM	●	●	TPM - Trusted Platform Module		0
SSD mSATA	●	●	mSATA SSD SATA MLC on onboard connector		2
SSD 2,5" **> note 3**	●	●	2,5" SSD/HDD SATA installation kit (SSD/HDD not included) ▪ with shock absorber		-
	●	●	SSD 2,5", SATA		5
	●	●	HDD 2,5" SATA 24x7		6
CFAST	●	●	CFast SATA		1
COMMUNICATION PORTS	●	●	1 x RS232/422/485 (DB15M) ▪ 1 x USB 2.0 **> note 4**		1
	●	●	1 x RS232/422/485 (DB15M) isolated ▪ 1 x USB 2.0 **> note 4**		1
	●	●	2 x RS232 (DB9M) **> note 4**		2
	●	●	2 x USB 2.0 **> note 4**		0
FIELDBUS	●	●	1 x NETcore X card with "60pin-H" connector **> note 4**		3
UPS BATTERY KIT	●	●	Batteries kit for detached systems mounting (wall mount) ▪ 30cm cable included		15
	●	●	Batteries kit for detached mounting (wall mount) ▪ 100cm cable included		15
WARRANTY EXTENSION	●	●	Warranty extension to 18 month		
	●	●	Warranty extension to 24 months		
	●	●	Warranty extension to 36 months		

NOTES

The power consumption of the configuration takes into consideration the maximum absorbed power of every component and does not include the consumption of the devices connected to the USB ports.

1: UPS module is supported by Microsoft Win32/64 operating systems

2: BM3300 RVL has to be used with a MHR100, MKR100 or with a RVL receiver module connected to a monitor via DVI-D.

3: 2,5" SSD and 2,5" HDD devices cannot be installed together

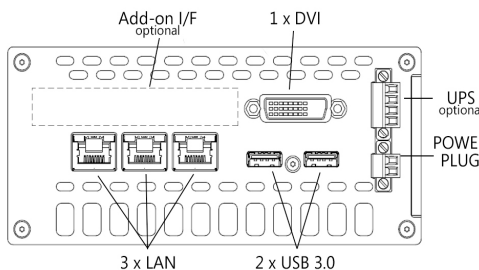**4:** Communication boards cannot be installed together

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TECHNICAL SPECIFICATIONS

Case		Wall book mounting
Overall dimensions & weight		See details on the related section
Power supply		24VDC isolated • Input voltage: 18÷32V DC
UPS (optional)		12V DC UPS (Uninterruptible Power Supply) battery backup system
		Batteries module (optional): Pb, 12V/13A max, 2500mA/h • Charge time 3h@25°C • Discharge time 15'@5A and 25°C • Lifetime 10years@25°C
Motherboard		"All-In-One" type • ASEM 1372
Watch dog		Time programmable
Intel platform	Processor	Intel® Celeron™ dual core 15W • Intel® Core™ 6th generation 15W (25W)
	Chipset	Intel® Skylake U PCH (Platform Controller Hub) • Integrated into processor chip
Operating System	O.S. certified by ASEM	Microsoft Windows 10 IoT Enterprise 2016 32/64bit • Microsoft Windows 8.1 Industry Pro 32/64bit • Microsoft Windows 7 Pro/Ultimate 32/64bit • Microsoft Windows Embedded Standard 7E/7P 32/64 bit • Linux
		Other operating systems, such as 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 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 510 integrated into Intel® Celeron™ microprocessor • 900MHz
		Intel® HD Graphics 520 integrated into Intel® Core™ microprocessor • 1GHz / 1,05GHz
Video RAM (shared)		Dynamic Video Memory Technology • Memory quantity is automatically selected by operating system • Maximum quantity depends on the operating system version
System memory		DDR4-2133 type • 1 SODIMM module • min 4GB • max 16GB
Mass storage		1 x onboard connector for direct insertion of mSATA SSD SATA III 6Gb/s • 1 x onboard connector for 2,5" SSD/HDD 24x7 SATA III 6Gb/s, with internal installation kit
TPM		2x10 (2,54) Pin-strip connector for optional TPM module
Front signalling (LED)		Power ON • UPS • HDD activity • Over temperature / Battery fault • Watchdog / Reset factory default
Front buttons (with open door)		Power ON • System Reset • Watchdog Reset • Factory Default Reset
On Top I/F	BM3300	3 x Ethernet 10/100/1000 Mbps (RJ45), 2 x Intel® I210, 1 x Intel® I219LM • 2 x USB 3.0 (Type A) • 1 x DVI-D Single Link (max resolution: 1920x1200)
	BM3300 RVL	3 x Ethernet 10/100/1000 Mbps (RJ45), 2 x Intel® I210, 1 x Intel® I219LM • 2 x USB 3.0 (Type A) • 1 x RJ45 (RVL OUT) remotation (TX) of DVI-D video signals and USB 2.0 up to 100 m
On Front I/F (with front door)		1 x bootable CFast SATA slot • 1 x system battery slot (CR2032) • 1 x USB 3.0
Environmental specifications		Operating temperature: 0°C÷+50°C, 0°C÷+45°C with 24x7 HDD • 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

OVERALL DIMENSIONS (mm)

SIDE VIEW
159,5
19
220
182
19

FRONT VIEW
71
18 35 18
4,2
5,5
208,5
220
4,5
18 35 18
6

TOP INTERFACES VIEW
POWER ON
UPS
HDD ACTIVITY
OVER TEMP. / BATTERY FAULT
W.D. / FACTORY DEFAULT

POWER ON
SYSTEM RESET
W.D. RESET
USB 3.0
SYSTEM BATTERY
CFast

BM3300 CONNECTORS VIEW
Add-on I/F optional
1 x DVI
UPS optional
POWER PLUG
3 x LAN
2 x USB 3.0

BM3300 RVL CONNECTORS VIEW
Add-on I/F optional
1 x RVL OUT
UPS optional
POWER PLUG
2 x LAN
2 x USB 2.0