Book mounting Box x86 based

BM2200
fanless

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Industrial Automation - Products & Configurations

BM2200 BASIC SYSTEM		POWER [W]
Basic Configuration	Intel® Celeron® quad core J1900 2,00 GHz ▪ 2GB RAM ▪ fanless ▪ DVI-I video output and VGA adapter▪ 24V DC isolated power supply ▪ UBIQUITY BASIC Win32/64 runtime ▪ 12 month warranty	19

BM2200 RVL BASIC SYSTEM		POWER [W]
Basic Configuration	Intel® Celeron® quad core J1900 2,00 GHz ▪ 2GB 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	23

	-	RVL		POWER [W]
REMOTE ASSISTANCE	●	●	ASEM UBIQUITY BASIC Win32/64 runtime	
PROCESSOR	●	●	Intel® Celeron® J1900 ▪ 2,00 GHz (2,42 GHz Burst), 2MB L2 cache ▪ 4 cores, 4 threads ▪ Soldered on-board	
RAM MEMORY	●	●	2 GB ▪ 1 module SODIMM DDR3-1600	
	●	●	4 GB ▪ 1 module SODIMM DDR3-1600	+ 1
	●	●	8 GB ▪ 1 module SODIMM DDR3-1600	+ 2
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-I (Single Link) video interface for additional external monitor ▪ Max resolution 1920x1080 FullHD ▪ VGA adapter included	
		●	Remote Video Link integrated ▪ remotation up to 100m of DVI-D video signals and USB 2.0 ▪ without cables **> note 2**	

OPTIONS				POWER [W]
	-	RVL		
TPM	●	●	TPM - Trusted Platform Module	0
SSD mSATA > note 3	●	●	SSD mSATA, SATA II 3Gb/s (Solid State Disk), MLC	2
SSD 2,5" > note 3	●	●	SSD 2,5" SATA installation kit (SSD not included)	-
	●	●	SSD 2,5" SATA	5
HDD 2,5" > note 3	●	●	HDD 2,5" SATA installation kit (HDD not included) ▪ with shock absorber	-
	●	●	HDD 2,5" SATA	6
CFAST	●	●	CFast SATA	1
COMMUNICATION PORTS	●	●	1 x RS232/422/485 (DB15M) isolated ▪ 2 x RS232 (DB9M) **> note 4**	3
	●	●	1 x RS232/422/485 (DB15M) isolated ▪ 1 x Ethernet 10/100/1000Mpbs, Intel® I210 **> 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: BM2200 RVL has to be used with a MHR100, MKR100 or with a RVL receiver module connected to a monitor via DVI-D.

3: mSATA SSD and 2,5" SSD/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@25ºC • Discharge time 15'@5A and 25ºC • Lifetime 10years@25ºC
Motherboard	"All-In-One" type • ASEM 977
Watch dog	Time programmable
Intel platform Processor	Intel® Celeron® J1900 • 2,00 GHz (2,42 GHz Burst), 2MB L2 cache • 4 cores, 4 threads • Soldered on-board
Operating System O.S. certified by ASEM	Microsoft Windows 10 IoT Enterprise 2016 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
Software Remote assistance	ASEM UBIQUITY BASIC Win32/64 runtime license with ASEM sticker
Video controller	Intel® HD Graphics integrated into Intel® Celeron™ microprocessor • 688MHz
Video RAM (shared)	Dynamic Video Memory Technology • Memory quantity is automatically selected by operating system (max 1720 MB)
System memory	DDR3-1066 type • 1 SODIMM module • min 2GB • max 8GB
Mass storage interfaces	1 x SATA II 3Gb/s or 1 x mSATA II 3Gb/s
Front signalling (LED)	Power ON • UPS • HDD activity • Over temperature / Battery fault • Watchdog / Reset factory default • PLC status • BUS status
Front buttons (with open door)	Power ON • System Reset • Watchdog Reset • Factory Default Reset
On Top I/F BM2200	2 x Ethernet 10/100/1000 Mbps (RJ45), Intel® I210 • 2 x USB 2.0 (Type A) • 1 x DVI-I Single Link (max risolution: DVI-D/VGA 1920x1080 FullHD)
BM2200 RVL	2 x Ethernet 10/100/1000 Mbps (RJ45), Intel® I210 • 2 x USB 2.0 (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 slot CFast (bootable) • 1 x system battery slot (CR2032) • 1 x USB 3.0
Environmental specifications	Operating temperature: 0ºC÷+50°C, 0ºC÷+45ºC with 24x7 HDD, +5ºC÷+45ºC with standard HDD • Storage temperature: -10° ÷ +60ºC • Humidity: 80% (non-condensing)
Approvals	CE (EN 55022, EN 61000-3-2/3, EN 55024, EN 60950-1) • cULus LISTED (UL 61010)
Standard warranty	12 months • Warranty management by ASEM headquarters

OVERALL DIMENSIONS (mm)

SIDE VIEW

FRONT VIEW

TOP INTERFACES VIEW

BM2200 CONNECTORS VIEW

BM2200 RVL CONNECTORS VIEW