


**Industrial Automation - Products & Configurations**

BM3500		POWER [W]
Basic Configuration	Intel® Celeron® dual core 3965U 2,20 GHz • 4GB RAM • fanless • DVI-D video output • 24V DC isolated power supply • UBIQUITY BASIC Win32/64 runtime • 12 months warranty	30

BM3500 RVL		POWER [W]
Basic Configuration	Intel® Celeron® dual core 3965U 2,20 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]
<b>REMOTE ASSISTANCE</b>	<input type="checkbox"/>	<input type="checkbox"/>	UBIQUITY BASIC Win32/64 runtime	
<b>PROCESSOR</b>	<input type="checkbox"/>	<input type="checkbox"/>	Intel® Celeron® 3965U • 2,20 GHz, 2MB smart cache • 2 cores, 2 threads • Soldered on-board	
	<input type="checkbox"/>	<input type="checkbox"/>	Intel® Core® i3-7100U • 2,40 GHz, 3MB smart cache • 2 cores, 4 threads • Soldered on-board	+ 0
	<input type="checkbox"/>	<input type="checkbox"/>	Intel® Core® i5-7300U • 2,60 GHz (3,50 GHz Turbo), 3MB smart cache • 2 cores, 4 threads • Soldered on-board	+ 13
	<input type="checkbox"/>	<input type="checkbox"/>	Intel® Core® i7-7600U • 2,80 GHz (3,90 GHz Turbo), 4MB smart cache • 2 cores, 4 threads • Soldered on-board	+ 13
<b>RAM MEMORY</b>	<input type="checkbox"/>	<input type="checkbox"/>	4 GB • 1 module SODIMM DDR4	
	<input type="checkbox"/>	<input type="checkbox"/>	8 GB • 1 module SODIMM DDR4	+ 1
	<input type="checkbox"/>	<input type="checkbox"/>	16 GB • 1 module SODIMM DDR4	+ 3
<b>INTERNAL PSU</b>	<input type="checkbox"/>	<input type="checkbox"/>	Without UPS (uninterruptible power supply)	
	<input type="checkbox"/>	<input type="checkbox"/>	With UPS (uninterruptible power supply) • integrated in power supply section • batteries kit not included > <b>note 1</b>	+ 1
<b>EXTERNAL MONITOR OUTPUT</b>	<input type="checkbox"/>	<input type="checkbox"/>	DVI-D (Single Link) video interface for external monitor • Max resolution 1920x1080 FullHD	
	<input type="checkbox"/>	<input type="checkbox"/>	Remote Video Link integrated • remotation up to 100m of DVI-D video signals and USB 2.0 • without cables > <b>note 2</b>	

OPTIONS				POWER [W]
<b>TPM</b>	<input type="checkbox"/>	<input type="checkbox"/>	TPM - Trusted Platform Module	0
<b>SSD mSATA</b>	<input type="checkbox"/>	<input type="checkbox"/>	mSATA SSD SATA on onboard connector	2
<b>SSD 2,5" &gt; note 3</b>	<input type="checkbox"/>	<input type="checkbox"/>	2,5" SSD/HDD SATA installation kit (SSD/HDD not included) • with shock absorber	-
	<input type="checkbox"/>	<input type="checkbox"/>	SSD 2,5", SATA	5
	<input type="checkbox"/>	<input type="checkbox"/>	HDD 2,5" SATA 24x7	6
<b>CFAST</b>	<input type="checkbox"/>	<input type="checkbox"/>	CFAST SATA	1
<b>COMMUNICATION PORTS &gt; note 4</b>	<input type="checkbox"/>	<input type="checkbox"/>	1 x RS232/422/485 (DB15M) • 1 x USB 2.0 > <b>note 4</b>	1
	<input type="checkbox"/>	<input type="checkbox"/>	1 x RS232/422/485 (DB15M) isolated • 1 x USB 2.0 > <b>note 4</b>	1
	<input type="checkbox"/>	<input type="checkbox"/>	2 x RS232 (DB9M) > <b>note 4</b>	2
	<input type="checkbox"/>	<input type="checkbox"/>	2 x USB 2.0 > <b>note 4</b>	0
<b>FIELDBUS</b>	<input type="checkbox"/>	<input type="checkbox"/>	1 x NETcore X card with "60pin-H" connector > <b>note 4</b>	3
<b>UPS BATTERY KIT</b>	<input type="checkbox"/>	<input type="checkbox"/>	Batteries kit for detached systems mounting (wall mount) • 30cm cable included	15
	<input type="checkbox"/>	<input type="checkbox"/>	Batteries kit for detached mounting (wall mount)	15
<b>WARRANTY EXTENSION</b>	<input type="checkbox"/>	<input type="checkbox"/>	Warranty extension to 18 month	-
	<input type="checkbox"/>	<input type="checkbox"/>	Warranty extension to 24 months	-
	<input type="checkbox"/>	<input type="checkbox"/>	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.	
<b>1:</b> UPS module is supported by Microsoft Win32/64 operating systems	
<b>2:</b> BM3500 RVL has to be used with a MHR100, MKR100 or with a RVL receiver module connected to a monitor via DVI-D.	
<b>3:</b> 2,5" SSD and 2,5" HDD devices cannot be installed together	
<b>4:</b> Options signed by note 4 cannot be installed together	



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™ 7th 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 2019 64bit • Microsoft Windows 10 IoT Enterprise 2016 64bit • 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
Software	Remote assistance: 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	DDR4-2400 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	BM3500 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) BM3500 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 (61010-1, 61010-2-201)
Standard warranty	12 months • Warranty management by ASEM headquarters

