BM3400/S0
fanless

Industrial Automation - Products & Configurations

BM3400/S0 D0 BASIC SYSTEM		POWER [W]
Basic Configuration	Intel® Celeron® dual core G3900E 2,40 GHz ▪ 4GB RAM ▪ fanless ▪ UBIQUITY BASIC Win32/64 runtime ▪ **without predisposition to extractable drives** ▪ 24V DC isolated power supply ▪ without UPS ▪ 12 month warranty	56

BM3400/S0 D1 BASIC SYSTEM		POWER [W]
Basic Configuration	Intel® Celeron® dual core G3900E 2,40 GHz ▪ 4GB RAM ▪ fanless ▪ UBIQUITY BASIC Win32/64 runtime ▪ **with predisposition to 1 extractable drive** ▪ 24V DC isolated power supply ▪ without UPS ▪ 12 month warranty	56

BM3400/S0 D2 BASIC SYSTEM		POWER [W]
Basic Configuration	Intel® Celeron® dual core G3900E 2,40 GHz ▪ 4GB RAM ▪ fanless ▪ UBIQUITY BASIC Win32/64 runtime ▪ **with predisposition to 2 extractable drives** ▪ 24V DC isolated power supply ▪ without UPS ▪ 12 month warranty	56

	D0	D1	D2		POWER [W]
REMOTE ASSISTANCE	•	•	•	ASEM UBIQUITY BASIC Win32/64 runtime	
PROCESSORS	•	•	•	Intel® Celeron® G3900E ▪ 2,40 GHz, 2MB L2 cache ▪ 2 cores, 2 threads ▪ Soldered on-board	
	•	•	•	Intel® Core™ i3-6100E ▪ 2,70 GHz ▪ 3MB smart cache ▪ 2 cores, 4 threads ▪ Soldered on-board	+ 0
	•	•	•	Intel® Core™ i5-6440EQ ▪ 2,70 GHz (3.40 GHz Turbo) ▪ 6MB smart cache ▪ 4 cores, 4 threads ▪ Soldered on-board	+ 0
	•	•	•	Intel® Core™ i7-6820EQ ▪ 2,80 GHz (3,50 GHz Turbo) ▪ 8MB smart cache ▪ 4 cores, 8 threads ▪ Soldered on-board	+ 13
RAM MEMORY	•	•	•	4 GB ▪ 1 module SODIMM DDR4-2133	
	•	•	•	8 GB ▪ 2 x 4 GB modules SODIMM DDR4-2133	+ 1
	•	•	•	16 GB ▪ 2 x 8 GB modules SODIMM DDR4-2133	+ 2
	•	•	•	32 GB ▪ 2 x 16 GB modules 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

OPTIONS					POWER [W]
	D0	D1	D2		
TPM	•	•	•	TPM - Trusted Platform Module	0
CFAST	•	•	•	CFast SATA	1
SSD mSATA	•	•	•	SSD mSATA, SATA III, 6Gb/s (Solid State Disk), MLC	2
HDD/SSD 2,5"	•			1 x HDD/SSD 2,5" SATA III internal installation kit (HDD/SSD not included)	-
		1	2	1 x HDD/SSD 2,5" SATA III extractable drawer (HDD/SSD not included) **> note 2**	-
	•	•	•	SSD 2,5" SATA	5
	•	•	•	HDD 2,5" SATA	6
COMMUNICATION PORTS	•	•	•	1 x RS232/422/485 (DB15M) ▪ 1 x USB 2.0 **> note 3**	1
	•	•	•	1 x RS232/422/485 (DB15M) isolated ▪ 1 x USB 2.0 **> note 3**	1
	•	•	•	2 x RS232 (DB9M) **> note 3**	2
	•	•	•	2 x USB 2.0 **> note 3**	0
REMOTE VIDEO LINK	•	•	•	1 x additional video output RVL - Remote Video Link ▪ Remotation up to 100m of DVI-D and USB 2.0 signals ▪ without cables **> note 4**	3
UPS BATTERIES 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 months on basic system and its variants	
	•	•	•	Warranty extension to 24 months on basic system and its variants	
	•	•	•	Warranty extension to 36 months on basic system and its variants	

NOTES

For power consumption calculation we reccomend to read the tips on pg. 4. The power values does not include the absorbed power of USB devices connected to the ports.

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

2: The D1 version allows the installation of 1 extractable drawer kit. The D2 version allows the installation of 2 extractable drawers kit.

3: Communication boards cannot be installed together.

4: RVL option is in addition to the DVI-D video output on the motherboard, let the installation of max 1 extractable drawer and have to be connected to a MHR100 or MKR100 monitor.

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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 1371
Watch dog		Time programmable
Intel platform	Processor	Intel® Celeron® J1900 dual core 35W • Intel® Core® 6th generation 35/45W
	Chipset	Intel® HM170 PCH (Platform Controller Hub)
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
Software	Remote assistance	ASEM UBIQUITY BASIC Win32/64 runtime license with ASEM sticker
Video controller		Intel® HD Graphics 510 integrated into Intel® Celeron™ microprocessor • 950MHz
		Intel® HD Graphics 530 integrated into Intel® Core™ microprocessor • 950MHz / 1GHz
Video RAM (shared)		Dynamic Video Memory Technology • Memory quantity is automatically selected by operating system
System memory		DDR4-2133 type • 2 SODIMM modules • min 4GB • max 32GB
Mass storage interfaces		2 x SATA III, 6Gb/s • 1 x mSATA SATA III, 6Gb/s
RAID controller		Integrated into chip Intel® HM170 PCH • Raid 0, 1
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		4 x Ethernet 10/100/1000 Mbps (RJ45), 3 x Intel® I210, 1 x Intel I219LM • 2 x USB 3.0 (Type A) • 2 x USB 2.0 (Type A) • 1 x RS232 (DB9M) • 1 x DVI-D Single Link (max resolution: 1920x1080 FullHD)
	optional	1 or 2 x RVL OUT (RJ45), remotation (TX) up to 100 m of video DVI-D and USB 2.0 signals
On Front I/F (with open front door)		1 x slot CFast (bootable) • 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 or with Core i7 processor, +5°C÷+45°C with standard 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 (UL61010) pending
Standard warranty		12 months • Warranty management by ASEM headquarters

OVERALL DIMENSIONS (mm)

SIDE VIEW

FRONT VIEW

FRONT INTERFACES

CONNECTORS VIEW