



Industrial Automation - Products & Configurations

PB2000/S0 BASIC SYSTEM			POWER [W]
Basic Configuration	Intel® Atom™ dual core D2550 1,86 GHz • 2GB RAM • fanless • 24V DC isolated power supply • UBIQUITY BASIC Win32/64 runtime • 12 months warranty		23

PB2000/S1 BASIC SYSTEM			POWER [W]
Basic configuration	Intel® Atom™ dual core D2550 1,86 GHz • 2GB RAM • fanless • 24V DC isolated power supply • 1 PCI slot • UBIQUITY BASIC Win32/64 runtime • 12 months warranty		27

	S0	S1		
REMOTE ASSISTANCE	•	•	ASEM UBIQUITY BASIC Win32/64 runtime	-
PROCESSOR	•	•	Intel® Atom™ dual core D2550 • 1,86 GHz, 1MB L2 cache • Intel® Hyper-Threading • Soldered on-board	
RAM MEMORY	•	•	1 GB • 1 module SODIMM DDR3	- 1
	•	•	2 GB • 1 module SODIMM DDR3	
	•	•	4 GB • 1 module SODIMM DDR3	+ 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	•	•	VGA (DB15F) video interface for additional external monitor • Max resolution 2048x1536 SXGA	
	•	•	DVI-I (Single Link) video interface for additional external monitor • Max resolution 2048x1536 SXGA	+ 0
EXPANSION SLOTS	•	•	No expansion slots	
	•	•	1 x PCI half size (106 x 175mm) • on riser card	
	•	•	1 x PCIe x1 format (Generation 1 2.5Gbit/s) half size (106 x 175mm) • on riser card	+ 0

OPTIONS				POWER [W]
SSD 2,5"	S0	S1		↓
	•		SSD 2,5" SATA installation kit (SSD not included)	-
		•	SSD 2,5" SATA installation kit (SSD not included)	-
	•	•	SSD 2,5" SATA	5
HDD 2,5	•		HDD 2,5" SATA installation kit (HDD not included) • with shock absorber	-
		•	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 serial port (DB15M) • 1 x USB 2.0 port > note 2	1
	•	•	1 x RS232/422/485 optoisolated serial port (DB15M) • 1 x USB 2.0 port > note 2	1
	•	•	2 x RS232 serial ports (DB9M) > note 2	2
	•	•	2 x USB 2.0 ports > note 2	0
USP BATTERIES KIT	•	•	Batteries kit for rear systems mounting • cable included	15
	•	•	Batteries kit for detached mounting (wall mount) • 100cm cable included	15
I/O BOARDS	•	•	8+8 channels DIN/DOUT optoisolated MiniPCI board > note 3	3
FIELDBUS	•	•	NETcore® X MiniAPCI fieldbus module • For technical details and supported drivers see related page > note 3	3
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

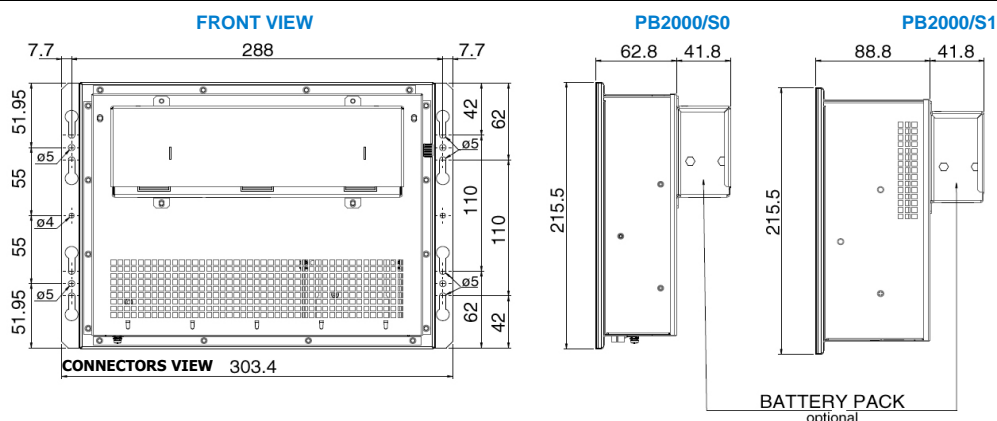
2: Options signed by note 2 cannot be installed together

3: Boards with MiniPCI / MiniAPCI bus cannot be installed together. For technical details and supported drivers see pg.364 or pg.368

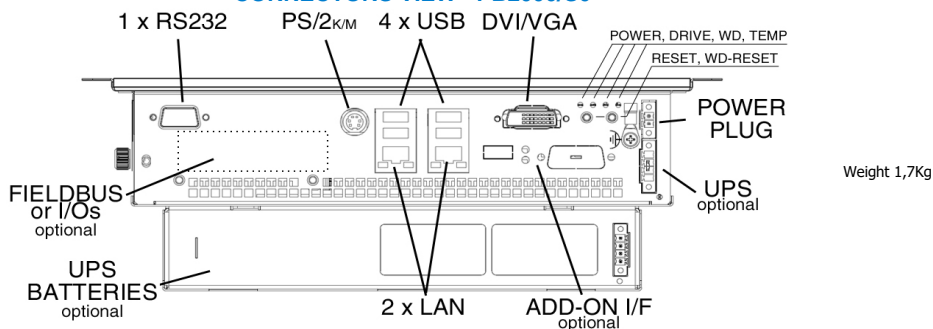


TECHNICAL SPECIFICATIONS	
Case	Wall and DIN rail mount
Overall dimensions & weight	See details on the related section
Power supply	Isolated • Input voltage: without UPS 18÷32V DC; with UPS 18÷32V DC
UPS (optional)	12V DC UPS (Uninterruptible Power Supply) battery backup system
Motherboard	Batteries module (optional): Pb, 12V/13A max, 2500mA/h • Charge time 3h@25°C • Discharge time 15'@5A and 25°C • Lifetime 10years@25°C
Watch dog	Time programmable
Intel platform	Processor Intel® Atom™ dual core D2550 (1,86GHz) Chipset Intel® NM10
Operating System	Microsoft Windows 7 Pro/Ultimate 32bit • Windows XP Pro 32bit • O.S. certified by ASEM Microsoft Windows Embedded Standard 7E/7P 32 bit • Windows Embedded Standard 2009 (XPe SP3) 32bit • Windows XP SP2 • Microsoft Windows Embedded Compact 7 Pro 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 Win64 • Microsoft Windows 8 / 2000 / 98 / NT • Microsoft Windows CE 5 / 6
Software	Remote assistance ASEM UBIQUITY BASIC Win32/64 runtime license with ASEM sticker
Video controller	Integrated in Intel® Atom™ microprocessor • 640MHz
Video RAM (shared)	Dynamic Video Memory Technology • Memory quantity is automatically selected by operating system
System memory	DDR3-800/1066 type • 1 SODIMM module • min 1GB • max 4GB
Mass storage interfaces	1 x SATA II • 3Gb/s integrated on board
CFlash slot	1 x slot CFlash (bootable) external access • 1 x slot CFlash (not bootable) external access, optional
Bus expansions slots	on board (S0, S1) 2 x MiniPCI on riser card (S1) 1 x PCI or 1 x PCIe x1 • half size (106 x 175mm) boards with 3W max consumption • alternative to each other
Rear access interfaces	2 x Ethernet 10/100/1000 Mbps (RJ45), Intel® 82574L • 4 x USB 2.0 (Type A) • 1 x PS/2 K/M • optional VGA/DVI-I video output (2048x1536 SXGA max)
Rear access serial interfaces	1 x RS-232 (DB9M)
Environmental specifications	Operating temperature: 0° ÷ +50°C, 0°C ÷ +45°C with 24x7 HDD, +5°C ÷ +45°C with standard HDD • Storage temperature: -20° ÷ +60°C • Humidity: 80% (non-condensing)
Approvals	CE (EN 55022, EN 61000-3-2/3, EN 55024, EN 60950-1) • cULus LISTED (UL508)
Standard warranty	12 months • Warranty management by ASEM headquarters

DIMENSIONS (mm)



CONNECTORS VIEW - PB2000/S0



CONNECTORS VIEW - PB2000/S1

