


Industrial Automation - Products & Configurations

PB2000/S0 BASIC SYSTEM	
Basic Configuration	Intel® Atom™ dual core D2550 1,86 GHz • 1GB RAM • fanless • isolated power supply • 12 months warranty

PB2000/S1 BASIC SYSTEM	
Basic configuration	Intel® Atom™ dual core D2550 1,86 GHz • 1GB RAM • fanless • isolated power supply • 1 PCI slot • 12 months warranty

	S0	S1		
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	↓
	•	•	2 GB • 1 module SODIMM DDR3	
	•	•	4 GB • 1 module SODIMM DDR3	
INTERNAL PSU	•	•	Without UPS (uninterruptible power supply)	↓
	•	•	With UPS (uninterruptible power supply) • integrated in power supply section • batteries kit not included > note 1	
EXTERNAL MONITOR OUTPUT	•	•	VGA (DB15F) video interface for additional external monitor • Max resolution 2048x1536 SXGA	↓
	•	•	DVI-I (Dual Link) video interface for additional external monitor • Max resolution 2048x1536 SXGA	
EXPANSION SLOTS	•	•	No expansion slots	↓
	•	•	1 x PCI half size • on riser card	
	•	•	1 x PCIe x1 format (Generation 1 2.5Gbit/s) half size • on riser card	

OPTIONS				
	S0	S1		
SSD 2,5"	•	•	SSD 2,5" SATA installation kit (SSD not included)	↓
	•	•	SSD 2,5" SATA installation kit (SSD not included)	
	•	•	SSD 2,5" SATA 2, 3Gb/s (Solid State Disk), MLC	
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 320GB 2,5" • SATA 2, 3Gb/s • 5400rpm, 8 MB buffer • Advanced Format • 24x7	
	•	•	HDD 500GB 2,5" • SATA 2, 3Gb/s • 5400rpm, 8 MB buffer • Advanced Format • 24x7	
	•	•	HDD 320GB 2,5" • SATA 2, 3Gb/s • 5400rpm, 8 MB buffer • Advanced Format	
	•	•	HDD 500GB 2,5" • SATA 2, 3Gb/s • 5400rpm, 8 MB buffer • Advanced Format	
CFAST	•	•	CFAST SATA 2	↓
COMMUNICATION PORTS	•	•	1 x RS232/422/485 serial port (DB15M) • 1 x USB 2.0 port > note 2	↓
	•	•	1 x RS232/422/485 optoisolated serial port (DB15M) • 1 x USB 2.0 port > note 2	
	•	•	2 x RS232 serial ports (DB9M) > note 2	
	•	•	2 x USB 2.0 ports > note 2	
USP BATTERIES KIT	•	•	Batteries kit for rear systems mounting • cable included	↓
	•	•	Batteries kit for detached mounting (wall mount) • 100cm cable included	
I/O BOARDS	•	•	8+8 channels DIN/DOUT optoisolated MiniPCI board • For technical details and supported drivers see pg.173 > note 3	↓
FIELDBUS	•	•	NETcore® X MiniAPCI fieldbus module • For technical details and supported drivers see pg.169 > note 3	↓
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	
1:	UPS module is supported by Microsoft Win32 operating systems and not by Microsoft WinCE operating systems
2:	Communication ports cannot be installed together
3:	Boards with MiniPCI / MiniAPCI bus cannot be installed together



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 Batteries module (optional): Pb, 12V/6A max, 2500mAh • Charge time 5h@25°C • Discharge time 15'@5A and 25°C • Lifetime 10years@25°C
Motherboard	"All-In-One" type • ASEM 953
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 • Microsoft Windows Embedded Standard 7E/7P 32 bit • Windows Embedded Standard 2009 (XPe SP3) 32bit • Windows XPe SP2 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. certified by ASEM O.S. not supported by Intel platform
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 2 • 3Gb/s integrated on board
CFast slot	1 x slot CFast (bootable) external access • 1 x slot CFast (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 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 (508)
Standard warranty	12 months • Warranty management by ASEM headquarters

