



Industrial Automation - Products & Configurations

PB2200/SL BASIC SYSTEM fanless - with mSATA SSD predisposition		POWER [W]
Basic Configuration	Intel® Celeron® quad core J1900 2,00 GHz • 2GB RAM • without possibility to add communication ports • isolated 24V DC power supply • 12 months warranty	23

PB2200/S0 BASIC SYSTEM fanless - with mSATA SSD predisposition		POWER [W]
Basic Configuration	Intel® Celeron® quad core J1900 2,00 GHz • 2GB RAM • with possibility to add communication ports • isolated 24V DC power supply • 12 months warranty	23

PB2200/S0 BASIC SYSTEM fanless - with 2,5" SSD/HDD predisposition		POWER [W]
Basic Configuration	Intel® Celeron® quad core J1900 2,00 GHz • 2GB RAM • with possibility to add communication ports • isolated 24V DC power supply • 12 months warranty	23

PB2200/S1 BASIC SYSTEM fanless - with mSATA SSD predisposition		POWER [W]
Basic configuration	Intel® Celeron® quad core J1900 2,00 GHz • 2GB RAM • with possibility to add communication ports • isolated 24V DC power supply • 1 PCI slot • 12 months warranty	27

PB2200/S1 BASIC SYSTEM fanless - with 2,5" SSD/HDD predisposition		POWER [W]
Basic configuration	Intel® Celeron® quad core J1900 2,00 GHz • 2GB RAM • with possibility to add communication ports • isolated 24V DC power supply • 1 PCI slot • 12 months warranty	27

	SL	S0	S1		POWER [W]
PROCESSOR	•	•	•	Intel® Celeron® J1900 • 2,00 GHz (2,42 GHz Burst), 2MB L2 cache • 4 cores, 4 threads • Soldered on-board	
RAM MEMORY	•	•	•	1 GB • 1 module SODIMM DDR3-1600	- 1
	•	•	•	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
COMMUNICATION PORTS	•	•	•	without possibility to add communication ports, below described	
	•	•	•	with possibility to add communication ports, below described	
EXPANSION SLOTS	•	•	•	No expansion slots	
	•	•	•	1 x PCI half size • on riser card • expansion board with max consumption 3W	
	•	•	•	1 x PCIe x1 format (Generation 1 2.5Gbit/s) half size • on riser card • expansion board with max consumption 3W	+ 0

OPTIONS				POWER [W]	
SSD mSATA > note 2	•	•	•	SSD mSATA (U110/X110), SATA 3, 6Gb/s (Solid State Disk), MLC	2
SSD 2,5" > note 2	•	•	•	SSD 2,5" SATA installation kit (SSD not included)	-
	•	•	•	SSD 2,5" SATA 2, 3Gb/s (Solid State Disk), MLC	5
HDD 2,5" > note 2	•	•	•	HDD 2,5" SATA installation kit (HDD not included) • with shock absorber	-
	•	•	•	HDD 2,5" SATA	6
CFAST	•	•	•	CFAST SATA 2	1
COMMUNICATION PORTS	•	•	•	1 x RS232/422/485 serial port (DB15M) • 1 x USB 2.0 port > note 3	1
	•	•	•	1 x RS232/422/485 optoisolated serial port (DB15M) • 1 x USB 2.0 port > note 3	1
	•	•	•	2 x RS232 serial ports (DB9M) > note 3	2
	•	•	•	2 x USB 2.0 ports > note 3	0
	•	•	•	1 x Ethernet 10/100/1000Mbps, Intel® I210	1
UPS BATTERIES KIT	•	•	•	Batteries kit for rear systems mounting • 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 recommend 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: mSATA SSD and 2,5" SSD/HDD devices cannot be installed together
3: Communication ports signed by note 3 cannot be installed together



TECHNICAL SPECIFICATIONS	
Case	Wall and DIN rail mount
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 954
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	Microsoft Windows 8.1 Industry Pro • Microsoft Windows 7 Pro/Ultimate 32/64bit • Microsoft Windows Embedded Standard 7E/7P 32/64 bit • Microsoft Embedded Compact 7 Pro • Linux O.S. certified by ASEM 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 / NT • Microsoft Windows CE 5 / 6
Video controller	Intel® HD Graphics integrated into Intel® Celeron™ microprocessor • 688MHz • I/F digitale LVDS a 8bit/colore
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 1GB • max 8GB
Mass storage interfaces	SL 1 x mSATA 2, 3Gb/s S0/S1 1 x SATA 2, 3Gb/s or 1 x mSATA 2, 3Gb/s
CFast slot	1 x slot CFast (bootable) external access
Bus expansions slots	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® I210 • 1 x USB 3.0 (Type A) • 2 x USB 2.0 (Type A) • 1 x DVI-I Single Link (max resolution: DVI-D/VGA 1920x1080 FullHD)
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)

