

► HMI Panel PC



The increasing demands in terms of ergonomics and communication options and capabilities are taken into account by the new HMI Control and Visual Panel PC systems. The scalable product line of the Panel PCs in Economy or Business class offers a wide range of processor capacities up to Pentium® III 1.4 GHz and display dimensions from 10" up to 19". The 100% industry-capable Panel PCs meet toughest industrial requirements concerning shock, vibration and temperature resistance.

The integrated innovative cooling concept of the Eco Panel realises a passive and fanless cooling for highest processor performance up to Pentium® III 933 MHz. Optional the field busses CANopen, DeviceNet or Profibus are integrated directly on board, so these systems can thus offer extremely low-cost connection both for conventional field busses and for the future Ethernet link to the field level.

Features	Optimization		Business Panel					Eco Panel		
Model			104	121	150	170	190 available Q3/2004	104	121	150
Display	10.4"	12.1"	10.4"	12.1"	15"	17"	19"	10.4"	12.1"	15"
Resolution	640x480	800x600	640x480	800x600	1024x768	1280x1024	1280x1024	640x480	800x600	1024x768
Brightness	200cd/m ²	200cd/m ²	350cd/m ²	300cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²	350cd/m ²	300cd/m ²	250cd/m ²
Touch Screen	Resistive analog		Resistive analog							
Function Keys	MFII compatible 55 keys		optional 16 up to 112 freely programmable keys					No		
Dimensions (mm) H x W x D (Panelmount)	267 x 482 x 300 (Rackmount)		295 x 325 x 166	327 x 400 x 166	362 x 452 x 166	390 x 465 x 178	t.b.d.	252 x 325 x 102	300 x 380 x 107	362 x 452 x 102
Processor	Up to 1 GHz PIII		Celeron™ 1200 MHz, Pentium® III 850 MHz up to 1.4 GHz					Geode™ 300 MHz, Celeron® 400 MHz up to 650 MHz, Pentium® III 933 MHz		
Main Memory	Up to 768 MByte		Up to 512 MByte PC133							
I/Os	2x COM, 1x LPT, VGA, RJ45, 2x USB, PS/2 mouse, keyboard		2x USB, 1x PS/2, 1x LPT, 2x LAN 10/100 Base-TX, 1x DVI/VGA, 3x RS232					2x USB, 2x PS/2, 1x LPT, 2x LAN 10/100 Base-TX, 1x CRT, 3x RS232		
Free Slots	4x PCI 32 Bit full-size, 4xISA full-size		2x PCI					2x PC/104+		
Field Busses	By PCI card		CanOpen or DeviceNet or Profibus							
Internal Drives	1x HDD up to 60 GByte		2.5" EIDE Interface					HDD		
Drives side accessible	FDD, CD ROM, DVD, CD-RW, C-drive		2nd HDD, CD ROM, Compact Flash, FDD					Compact Flash up to 1 GByte		
Power Supply	AC 300 W or 24 VDC		115/230 VAC or 24 VDC					24 VDC		
Cooling	Active 3 chassis fans		Active					Fanless cooling concept		
EMC	CE class B		US: FCC47 CFR PART 15; Class A level, CE: EN61000-6-2; EN55022/A (CISPR22)							
Approvals	CE, FCC		CE, FCC, cULus							
Protection Class	IP 65 front		IP 65 front (NEMA 250 type 12 and 13)							
Altitude	Operating: 10,000 ft		Operating: 10,000 ft (3,048m), storage: 15,000 ft (4,622m)							
Shock DIN EN 60068-2-27	5G, 11ms / 6 axis (half-sinus)		Operating: 15G, 11ms duration / Storage: 50G, 11ms duration (half-sinus)							
Vibration DIN EN 60068-2-6	Operating: 58-500 Hz 0,5G sinus / 6 axis		Operating: 10-500Hz: 1G / 3 axis / Storage: 10-500Hz: 2G / 3 axis							
Temperature/Humidity	Operating: Up to +50°C / 5 to 95% non condensing		Operating: 0°C to +50°C / 5 to 95% non condensing Storage: -25°C to +70°C / 5 to 95% non condensing							
MTBF	> 40000h*		> 40000h*							
Verified Operating Systems	Windows XP, Windows 2000, Windows Embedded, Linux		MS-DOS 6.22, Windows 95, Windows 98, Windows NT 4.0, Windows 2000, Windows XP, Linux, VxWorks RTOS					Windows XP Embedded, CE.net, Embedded Linux		

*) exclusive Backlight Tube