



**DELTA – GROUP**

**POWER AND CONTROL**

# **IPANEL X1210V3**

**A RUGGED INDUSTRIAL  
SOLUTION FOR COMPUTING  
IN EXTREME ENVIRONMENTAL  
CONDITIONS.**

THE IPANEL X1210V3 IS THE LATEST INDUSTRIAL PC FROM DELTA AUTOMATION. A CULMINATION OF 8 MONTHS DESIGN, RESEARCH AND TESTING, THE IPANEL X1210V3 IS AIMED AT PROVIDING A RELIABLE SOLUTION TO INDUSTRIAL COMPUTING NEEDS, WITHOUT COMPROMISING THE FEATURES REQUIRED TO RUN MODERN SOFTWARE.

THE IPANEL X1210V3 PROVIDES A 2.5GHZ+ P4 PROCESSOR, WITH 1GB OF DDR SODIMM RAM. A 8GB SOLID STATE HARD DISK IS PROVIDED FOR RUGGED DATA STORAGE. (AN OPTIONAL EXTERNAL 2.5" 60GB STANDARD HARD DRIVE IS OFFERED FOR ANY EXTRA DATA LOGGING) ALL HARD DISK DRIVES ARE CHECK BEFORE INSTALLATION FOR DEFECTS IN SECTORS AND TRACKS, ENSURING THAT THE MOST RELIABLE OPERATION POSSIBLE IS ATTAINED. VIBRATION ABSORBING RUBBER MOUNTS ARE USED TO ENSURE THE MAXIMUM LIFETIME FROM SENSITIVE COMPONENTS. WITH 4 STANDARD SERIAL PORTS, AN RJ45 ETHERNET PORT, 2 USB PORTS AND STANDARD STYLE PS/2 CONNECTORS, THE X1210V3 IS CAPABLE OF INTERFACING TO ANY STANDARD COMMUNICATION SYSTEM. TO CONSERVE SPACE AND REDUCE FAILURE PRONE CONNECTORS, THE X1210V3 IS FITTED WITH A 12.1" XGA (1024\*768, 24BIT COLOUR) SCREEN. PROTECTED BY A LEXAN SHEET, THE PHILIPS 12.1" LVDS PANEL USED ENSURES HIGH VISIBILITY AT VARIOUS VIEWING ANGLES, WHILST PRODUCING LOW HEAT AND CONSUMING LOW AMOUNTS OF POWER. WITH 32MB OF CONFIGURABLE RAM AND AGP COMPATIBILITY, SCREEN REFRESH RATES FOR COMPLEX ANIMATIONS AND IMAGES ARE EXCELLENT.



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THE IPANEL X1210V3 HAS BEEN TESTED WITH MICROSOFT® WINDOWS 95/98/ME/2000PRO/XP PRO AND DOS TO ENSURE COMPATIBILITY WITH THE REQUIREMENTS OF ANY CUSTOMER. ALL SYSTEM CONFIGURATION PERFORMED BY DELTA AUTOMATION ON SOFTWARE IS SUPPLIED TO THE CUSTOMER AS A FULL CLONE OF THE HARD DISK DRIVE, ENSURING EASY RE-CONFIGURATION IN THE UNLIKELY EVENT THAT A MAJOR SYSTEM FAILURE SHOULD OCCUR. ADDITIONALLY, ALL X1210V3 UNITS ARE SHIPPED WITH A DRIVERS DISK FOR THE REQUESTED OPERATING SYSTEM, A MANUAL ON MOTHERBOARD CONFIGURATION AND BIOS SETTINGS. FILTERED HIGH VOLUME FANS ARE USED TO PUSH WARM AIR OUT AND PULL COOL AIR INTO THE ENCLOSURE, MAINTAINING THE ELECTRONICS IN A COOL DUST FREE ENVIRONMENT. THE USE OF ALL INDUSTRIAL GRADE COMPONENTS, RATED TO OPERATING TEMPERATURES OF 60°C CONSTANT, ENSURE LONG LIFE AND RELIABLE OPERATION IN CONFINED SPACES WHERE HEAT DISSIPATION IS RESTRICTED. THE POWER SUPPLIES ARE VOLTAGE SENSING FROM 90VOLTS TO 255VOLTS ENSURING THAT THEY CAN BE PLUGGED INTO ANY INDUSTRIAL SYSTEM AND TOLERATE SOME VOLTAGE SWAY. WITH OUTPUTS STABILISED TO  $\pm 5\%$ , THE POWER SUPPLY UNITS ENSURE THE MAINBOARD NEVER ENTERS A TRANSIENT STATE



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CPU Type	Socket 478 (Intel Pentium 4 / Celeron)
CPU Voltage	0.8375V~1.6V (VRD10)
System Speed	2.0AG~3.2GHz
CPU Operating Frequency	400/533/800MHz
Green /APM	APM1.2
CPU Socket	Socket 478
Chipset	ATI RS300M Chipset NB: Mobility IGP9180 868 PIN BGA SB: IXP150 457 PIN BGA
BIOS	Award BIOS, with ACPI Function
Cache	128K/256K/512K Level 2 (CPU integrated)
VGA	Mobility IGP9180 embedded, AGP 4X,CRT, TV-out, LVDS
LAN	Realtek RTL8100 10/100Mb LAN controller
Audio	IXP150 built-in sound controller + AC97 Codec ALC655 AC3 5.1 CH. (Line-out, Line-in, Mic)
Memory type	1 x DDR, 2.5V, DDR266/333/400 SDRAM(without ECC Function) DIMM Module, Max. capacity - 1GB
LPC I/O	1. First I/O : Winbond 83627HF: IrDax1 Parallel x1, COM1(RS-232), COM2(RS-232), FDC 1.44MB (Slim type), Hardware monitor (3 thermal inputs, 8 voltage monitor inputs, VID0-4, 1 chassis open detection ,3 fan headers) 2. Secondary I/O: Fintek F81216 support COM3,4 (RS-232)
Keyboard Controller	Winbond 83627HF built-in
Local bus IDE	IXP150 built-in, IDE1 40-pin pitch 2.54mm (Ultra DMA 33/66/100), IDE2 44-pin pitch 2.0mm
Serial ATA	SiI3512, 2 ports
Digital I/O	4 in, 4 out
On board D-type connector	PS/2 Keyboard/Mouse, VGA(CRT), COM1, Printer, USBx2, RJ-45, Line-out , Line-in, Mic, TV-out
Power Connector	ATX 12V
PCI Slot	1 slot (support 2 bus master)
USB	4 ports, USB 2.0
IrDA (Infrared Ray)	Pin header, allows infrared wireless communication.
Watchdog Timer	Yes (256 segments, 0,1,2...255. sec/min)
System Voltages	+5V, +12V, -12V, 5VSB-5V, 3.3V