



Features

- LX800, 500 MHz CPU or Atom Z520, 1.33 GHz CPU
- Windows Embedded Standard 2009
- SQL Server 2005 Express Edition
- Audio with Microphone-In and Earphone-Out
- VGA Port Output
- Support eLogger HMI
- Redundant Power Inputs
- Operating Temperature: -25 ~ +75°C



Introduction

XP-8x41-Atom series is the new generation Windows Embedded Standard 2009 based PACs of XP-8x41. It is equipped with an Intel Atom Z520 Series CPU at 1.33GHz, while XP-8x41 is equipped with a LX800 CPU at 500 MHz. They provide a variety of connectivity options (VGA, USB, Ethernet, RS-232/485) and 0/1/3/7 I/O slots for high performance parallel I/O modules (high profile I-8K Series) and serial I/O modules (high profile I-87K series). The benefits of running Windows Embedded Standard 2009 include

- Enhanced Write Filter (EWF): Protects disk against improper disk write operations.
- Same Win32 API: Makes developing applications just like Windows XP Professional developers do.

This makes almost every PC-based program can be easily ported to XPAC-Atom and effectively reduces the system development efforts and shortens the time to market.

For software copy protection, programmers can design software based on the 64-bit hardware serial number for making software copy protected.

Windows Embedded Standard 2009



Windows Embedded Standard 2009 has the same Win32 API as Windows XP Professional. Most popular applications on desktop can be easily ported to Windows Embedded Standard 2009. It's also compatible with rich Windows IDEs, such as Visual studio, Delphi, Borland C++ Builder. These points effectively reduce the efforts of developments and shorten the time to market.

The key features are

- ◆ Full Win32 API
- ◆ Remote Desktop Protocol 5.1
- ◆ Silverlight 4.0
- ◆ Enhanced Write Filter
- ◆ MS SQL Server 2008 R2 Express
- ◆ Microsoft .NET Framework 3.5

Specifications

Models	XP-8041	XP-8341	XP-8741	XP-8141-Atom	XP-8341-Atom	XP-8741-Atom
System Software						
OS	Microsoft Windows Embedded Standard 2009					
.Net Compact Framework	3.5					
Embedded Service	FTP Server, Internet Information Service 5.1, ASP (Java Script, VB Script), SQL Server 2005 Express					
SDK Provided	DII for VC, VB, Delphi, BCB, Visual Studio .NET 2005/2008					
Multilanguage Support	English, German, French, Spanish, Russian, Italian, Czech, Japanese, Korean, Simplified Chinese, Traditional Chinese					
CPU Module						
CPU	LX800, 500 MHz			Atom Z520, 1.33 GHz		
System Memory	1 GB DDR SDRAM			1 GB DDR2 SDRAM		
Dual Battery Backup SRAM	512 KB; data valid up to 5 years					
Flash	4 GB			16 GB		
EEPROM	16 KB					
CF Card	8 GB (support up to 32 GB)					
RTC (Real Time Clock)	Provide second, minute, hour, date, day of week, month, year					
Programmable LED Indicator	-			2		
64-bit Hardware Serial Number	Yes, for Software Copy Protection					
Dual Watchdog Timers	Yes					
Rotary Switch	Yes (0 ~ 9)					
DIP Switch	-			Yes (8 bits)		
Audio	-			Microphone-In and Earphone-Out		
VGA & Communication Ports						
VGA	Yes, (resolution: 1600 x 1200, 1024 x 768, 800 x 600, 640 x 480)					
Ethernet (Giga bit)	RJ-45 x 2, 10/100/1000 Base-T (Auto-negotiating, Auto MDI/MDI-X, LED indicators)					
USB 2.0	2			4		
COM 1	RS-232 (Rx/D, Tx/D and GND); non-isolated	Internal communication with the high profile I-87K series modules in slots				
COM 2	RS-232 (Rx/D, Tx/D and GND); non-isolated					
COM 3	RS-485 (Data+, Data-) with internal self-tuner ASIC; 3000 Vdc isolated					
COM 4	RS-232/RS-485 (Rx/D, Tx/D, CTS, RTS and GND for RS-232, Data+ and Data- for RS-485); non-isolated					
COM 5	RS-232 (Rx/D, Tx/D, CTS, RTS, DSR, DTR, CD, RI and GND); non-isolated					
I/O Expansion Slots						
Slot Number	0	3	7	1	3	7
Mechanical						
Dimensions (W x L x H)	137 x 132 x 125 mm	231 x 132 x 125 mm	355 x 132 x 125 mm	169 x 132 x 125 mm	231 x 132 x 125 mm	355 x 132 x 125 mm
Installation	DIN-Rail or Wall Mounting					
Environmental						
Operating Temperature	-25 ~ +75°C					
Storage Temperature	-30 ~ +80°C					
Ambient Relative Humidity	10 ~ 90% RH, non-condensing					
Power						
Input Range	+10 ~ +30 Vdc					
Isolation	1 kV					
Redundant Power Inputs	Yes, with one power relay (1 A @ 24 Vdc) for alarm					
Capacity	15 W	35 W	35 W	25 W	35 W	35 W
Consumption	14.4 W	14.4 W	16.8 W	16.6 W	16.8 W	18 W

Ordering Information

XP-8041 CR	Standard XP-8000 without I/O Slot (Multilingual Version of OS) (RoHS)
XP-8341 CR	Standard XP-8000 with 3 I/O Slots (Multilingual Version of OS) (RoHS)
XP-8741 CR	Standard XP-8000 with 7 I/O Slots (Multilingual Version of OS) (RoHS)
XP-8141-Atom CR	Standard XP-8000-Atom with 1 I/O Slot (Multilingual Version of OS) (RoHS)
XP-8341-Atom CR	Standard XP-8000-Atom with 3 I/O Slots (Multilingual Version of OS) (RoHS)
XP-8741-Atom CR	Standard XP-8000-Atom with 7 I/O Slots (Multilingual Version of OS) (RoHS)

Note: Call for customized XPAC-8000-Atom

Accessories

DP-660	24 Vdc/2.5 A, 60 W and 5 Vdc/0.5 A, 2.5 W Power Supply with DIN-Rail Mounting
DP-1200 CR	24 Vdc/5.0 A, 120 W Power Supply with DIN-Rail Mounting (RoHS)
MDR-60-24 CR	24 Vdc/2.5 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)
NS-205 CR	Unmanaged 5-port Industrial 10/100 Ethernet Switch with Plastic Case (RoHS)
NS-208 CR	Unmanaged 8-port Industrial 10/100 Ethernet Switch with Plastic Case (RoHS)

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Compact PAC