

XP-8041/8341/8741

Windows Embedded Standard 2009 Inside



XP-8041



XP-8341



XP-8741

Highlight Information

- Windows Embedded Standard 2009
- IIS, ASP.NET, .NET Framework 3.5
- SQL Server 2005 Express Edition
- VS6.0, VS.NET 2003/2005/2008 Supported
- AMD LX 800 CPU (32-bit and 500 MHz)
- 1 GB DDR SDRAM, 4 GB Flash, 8 GB CF Card
- One VGA Port, Dual USB Ports
- Dual Ethernet Ports (10/100M)
- 4/5 Serial Ports (RS-232/RS-485)
- Dual Watchdog Timers
- Operating Temperature: -25 ~ +75 °C



Introduction

XP-8x41 Series (XP-8041, XP-8341, XP-8741) is the new generation PAC of ICP DAS. It equips an AMD LX 800 CPU (500 MHz) running a Windows Embedded Standard 2009 operating system, variant connectivity (VGA, USB, Ethernet, RS-232/RS-485) and 0/3/7 slots for high performance parallel I/O modules (high profile I-8K series) and serial-type I/O modules (high profile I-87K I/O modules).

Its operating system, Windows Embedded Standard 2009, has many advantages. Most of all, Windows Embedded Standard 2009 has the same Win32 API as Windows XP Professional, that is, almost every desktop program can be easily ported to Windows Embedded Standard 2009. This effectively reduces the efforts of developments and shortens the time to market.

XP-8000 ÷ IPC + I/O Cards



Features

Software

- Windows Embedded Standard 2009
- Internet Information Services
 - FTP server and web server
- ASP.NET
- SQL Server 2005 Express Edition
- .NET Framework 3.5
- Remote Desktop Connection
- Built-in OPC Server
- Rich Software Solutions
 - SDK for Microsoft Visual Studio.NET 2003/2005/2008 and Visual Studio 6.0

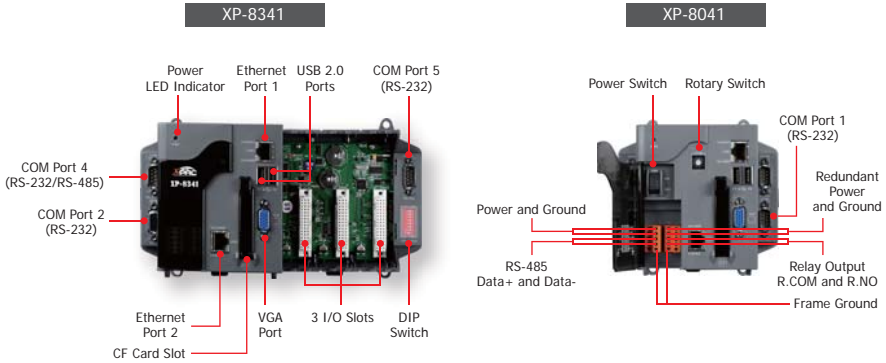
Hardware

- Powerful CPU Module
 - AMD LX 800 CPU (32-bit and 500 MHz)
- Rich Memories
 - DDR SDRAM (1 GB), Built-in Flash Disk (4 GB)
 - EEPROM (16 KB), CF Card (8 GB)
 - Dual Battery Backup SRAM (512 KB)
- VGA Port x 1, USB 2.0 Ports x 2
- 64-bit Hardware Serial Number
 - Unique to Avoid Software Pirating
- Dual Watchdog Timers
- 4/5 Serial Ports (RS-232/RS-485)
- Dual Ethernet Ports (10/100M)
- Redundant Power Inputs
- Operating Temperature: -25 ~ +75 °C

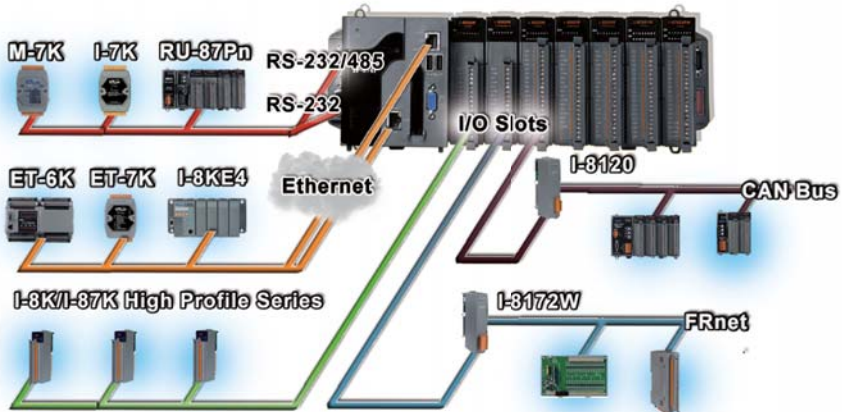
● Specifications

Models	XP-8041	XP-8341	XP-8741
System Software			
OS	Microsoft Windows Embedded Standard 2009 (including SQL Server 2005 Express; Internet Information Service 5.1)		
CPU Module			
CPU	AMD LX 800 processor		
System Memory	1 GB DDR SDRAM		
Dual Battery Backup SRAM	512 KB (for 5 years data retention)		
Flash	4 GB as IDE Master		
EEPROM	16 KB		
	Data Retention: 40 years; 1,000,000 erase/write cycles		
CF Card	8 GB (support up to 32 GB)		
64-bit Hardware Serial Number	Yes		
Dual Watchdog Timers	Yes		
Rotary Switch	Yes (0 – 9)		
DIP Switch	-	Yes (8 bits)	
VGA & Communication Ports			
VGA	Yes, (resolution: 640 x 480 ~ 1600 x 1200)		
Ethernet	RJ-45 x 2, 10/100 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)		
USB 2.0	2		
COM 1	RS-232 (Rx/D, Tx/D and GND); non-isolated	Internal communication with I-87K modules in slots	
COM 2	RS-232 (Rx/D, Tx/D and GND); non-isolated		
COM 3	RS-485	D2+, D2-; self-tuner ASIC inside	
	Isolation	3000 V _{DC}	
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 slot	3 slots	7 slots
Hot Swap * Will be available	-	For High Profile I-87K Modules Only	
Mechanical			
Dimensions (W x L x H, Unit: mm)	137 x 132 x 125	231 x 132 x 125	355 x 132 x 125
Installation	DIN-Rail or Wall Mounting		
Environmental			
Operating Temperature	-25 ~ +75 °C		
Storage Temperature	-30 ~ +85 °C		
Ambient Relative Humidity	5 ~ 90% RH, non-condensing		
Power			
Input Range	+10 ~ +30 V _{DC}		
Isolation	1 kV		
Redundant Power Inputs	Yes, with one power relay (1 A @ 24 V _{DC}) for alarm		
Capacity	1.8 A, 5 V supply to CPU and backplane, total 15 W	1.8 A, 5 V supply to CPU and backplane, 5.2 A, 5 V supply to I/O expansion slots, total 35 W	2.0 A, 5 V supply to CPU and backplane, 5.0 A, 5 V supply to I/O expansion slots, total 35 W
	Consumption	14.4 W (0.6 A @ 24 V _{DC})	14.4 W (0.6 A @ 24 V _{DC})

• Appearance



• Rich I/O Expansion Ability



• Ordering Information

XP-8041-EN CR	Standard XP-8000 with 0 I/O Slot (English Version of OS) (RoHS)
XP-8341-EN CR	Standard XP-8000 with 3 I/O Slots (English Version of OS) (RoHS)
XP-8741-EN CR	Standard XP-8000 with 7 I/O Slots (English Version of OS) (RoHS)
XP-8041-TC CR	Standard XP-8000 with 0 I/O Slot (Traditional Chinese Version of OS) (RoHS)
XP-8341-TC CR	Standard XP-8000 with 3 I/O Slots (Traditional Chinese Version of OS) (RoHS)
XP-8741-TC CR	Standard XP-8000 with 7 I/O Slots (Traditional Chinese Version of OS) (RoHS)
XP-8041-SC CR	Standard XP-8000 with 0 I/O Slot (Simplified Chinese Version of OS) (RoHS)
XP-8341-SC CR	Standard XP-8000 with 3 I/O Slots (Simplified Chinese Version of OS) (RoHS)
XP-8741-SC CR	Standard XP-8000 with 7 I/O Slots (Simplified Chinese Version of OS) (RoHS)

• Accessories

DP-660	24 V _{dc} /2.5 A, 60 W and 5 V _{dc} /0.5 A, 2.5 W Power Supply with DIN-Rail Mounting
DP-1200	24 V _{dc} /5.0 A, 120 W Power Supply with DIN-Rail Mounting
MDR-20-24	24 V _{dc} /1.0 A, 24 W Power Supply with DIN-Rail Mounting
MDR-60-24	24 V _{dc} /2.5 A, 60 W Power Supply with DIN-Rail Mounting