



Available soon LP-5031 Series

### Features

- 9G45, 400 MHz CPU
- Linux kernel 2.6.30 Inside
- Embedded Service: Web Server, FTP Server, Telnet Server, SSH Server
- 256 MB Flash, 128 MB SDRAM
- Built-in Ethernet, USB, RS-232, RS-485 Ports
- 64-bit Hardware Serial Number for Software Protection
- I/O Expansion Board Optional
- Wireless Module Options
- Operating Temperature: -25 ~ +75°C



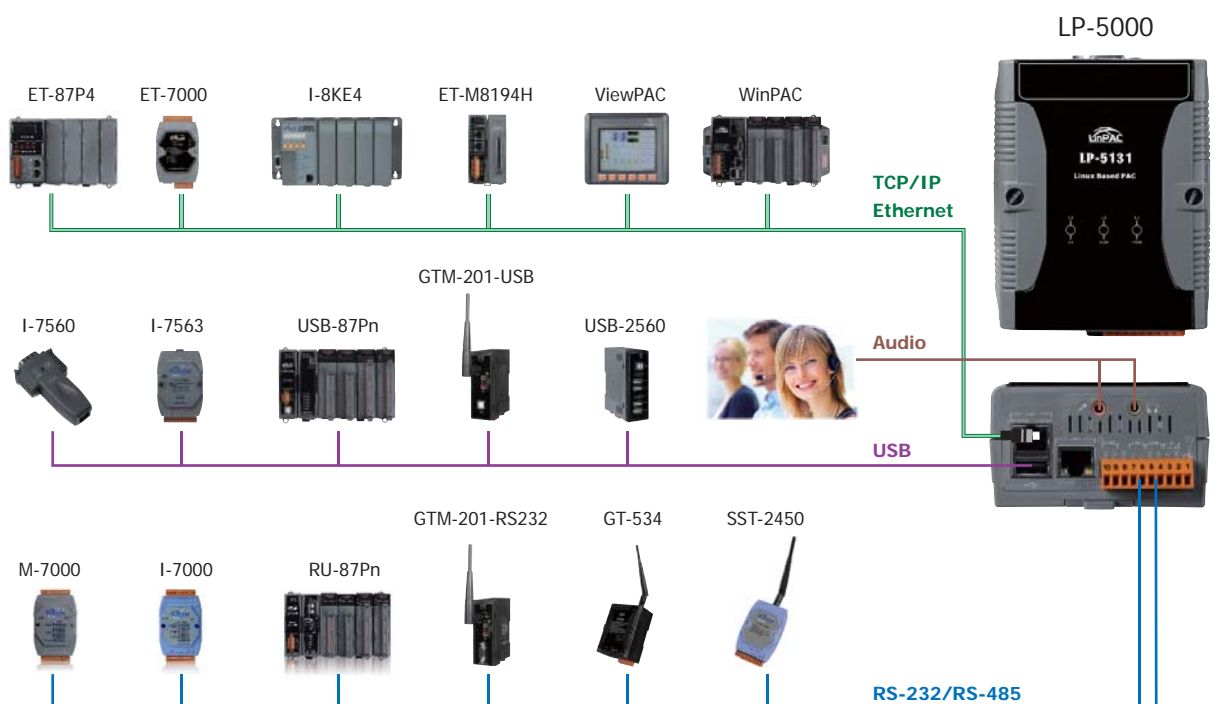
### Introduction

The LP-5031 series is equipped with a 9G45 CPU (400 MHz) and running a Linux kernel 2.6.30 operating system, multiple communication interfaces, such as USB, Ethernet, RS-232/485 and optional internal wireless module. The internal wireless module option includes 2G, 3G, ZigBee, Wi-Fi, GPS for different wireless application. Further more, it also contains an optional I/O expansion board to implement various I/O functions, such as DI, DO, A/D, D/A.

Main advantage of the LP-5031 series is its high quality control system, including its stability, small core size, optional I/O expansion board, support for Web services (Web/FTP/Telnet/SSH server), and multiple development environments (LinPAC SDK for Linux and Windows environment using the GNU C language, GUI software), etc., all of which give users the best features of both traditional PLCs and Linux capable PCs, meaning that it is one of the most powerful and flexible embedded control systems available.

### Applications

Multiple communication interface and Field Bus I/O Expansion



## Specifications

Models	LP-5031	LP-5031-GPS	LP-5031-2G	LP-5031-3G	LP-5031-WF	LP-5031-ZH	LP-5031-ZS
<b>System Software</b>							
OS	Linux kernel 2.6.30						
Embedded Service	Web Server, FTP Server, Telnet Server, SSH Server						
SDK Provided	Standard LinPAC SDK for Windows and Linux by GNU C language						
<b>CPU Module</b>							
CPU	9G45, 400 MHz						
DDR2 SDRAM	128 MB						
Flash	256 MB						
EEPROM	16 KB						
Expansion Flash Memory	microSD socket with one 2 GB microSD card (support up to 32 GB microSDHC card)						
RTC (Real Time Clock)	Provide second, minute, hour, date, day of week, month, year						
64-bit Hardware Serial Number	Yes, for Software Copy Protection						
Dual Watchdog Timers	Yes						
LED Indicators	1 LED for Power and Running; 2 LED for user defined						
Rotary Switch	Yes (0 ~ 9)						
<b>Communication Ports</b>							
Ethernet	RJ-45 x 1, 10/100 Based-TX ( Auto-negotiating, Auto MDI/MDI-X, LED indicators)						
USB 2.0 (host)	1						
COM 1	RS-232 (Rx, Tx and GND); Non-isolated, Reserved for OS						
COM 2	RS-232 (Rx, Tx and GND); Non-isolated						
COM 3	RS-485 (Data+, Data-); 2500 V <sub>DC</sub> isolated						
COM 4	RS-485 (Data+, Data-); 2500 V <sub>DC</sub> isolated						
Wireless Port	-	GPS	2G (GPRS)	3G (WCDMA)	Wi-Fi	ZigBee (Host, Coordinator)	ZigBee (Slave, Full Function Device)
<b>I/O Expansion</b>							
I/O Expansion Bus	Yes, one optional XV-board						
<b>Mechanical</b>							
Dimensions (W x L x H)	91 mm x 132 mm x 52 mm						
Installation	DIN-Rail Mounting						
<b>Environmental</b>							
Operating Temperature	-25 ~ +75 °C						
Storage Temperature	-30 ~ +80 °C						
Ambient Relative Humidity	10 ~ 90% RH (non-condensing)						
<b>Power</b>							
Input Range	+10 ~ +30 V <sub>DC</sub>						
Consumption	4.8 W						

## Ordering Information

LP-5031-EN CR	PAC with Linux kernel 2.6.30 and one LAN port (English Version of OS) (RoHS)
LP-5031-GPS-EN CR	PAC with Linux kernel 2.6.30 and one LAN port and GPS module (English Version of OS) (RoHS)
LP-5031-2G-EN CR	PAC with Linux kernel 2.6.30 and one LAN port and 2G (GPRS) module (English Version of OS) (RoHS)
LP-5031-3G-EN CR	PAC with Linux kernel 2.6.30 and one LAN port and 3G (WCDMA) module (English Version of OS) (RoHS)
LP-5031-WF-EN CR	PAC with Linux kernel 2.6.30 and one LAN port and Wi-Fi (802.11 b/g) module (English Version of OS) (RoHS)
LP-5031-ZH-EN CR	PAC with Linux kernel 2.6.30 and one LAN port and ZigBee (Host, Coordinator) module (English Version of OS) (RoHS)
LP-5031-ZS-EN CR	PAC with Linux kernel 2.6.30 and one LAN port and ZigBee (Slave, Full Function Device) module (English Version of OS) (RoHS)

## Option Accessories

DP-660	24 V <sub>DC</sub> /2.5 A, 60 W and 5 V <sub>DC</sub> /0.5 A, 2.5 W Power Supply with DIN-Rail Mounting
DP-1200 CR	24 V <sub>DC</sub> /5.0 A, 120 W Power Supply with DIN-Rail Mounting (RoHS)
MDR-20-24 CR	24 V <sub>DC</sub> /5.0 A, 24 W Power Supply with DIN-Rail Mounting (RoHS)
MDR-60-24 CR	24 V <sub>DC</sub> /2.5 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)
XV-Board	Add-on I/O Expansion Board