



Introduction

The LP-2841M is equipped with a Cortex-A53 (1.6 GHz, quad-core) CPU running a Linux operating system (Linux Kernel 5.4.70), a variant of input/output ports (VGA, USB, Ethernet, RS-232/485), and powerful software including development tools.

Linux Kernel 5.4.70 is a compact and real-time OS used to quickly create time critical and high performance applications.

Main advantage of the LP-2841M is its high quality control system, including its stability, small core size, optional I/O expansion board, support for Web services (Web/SFTP/SSH server).

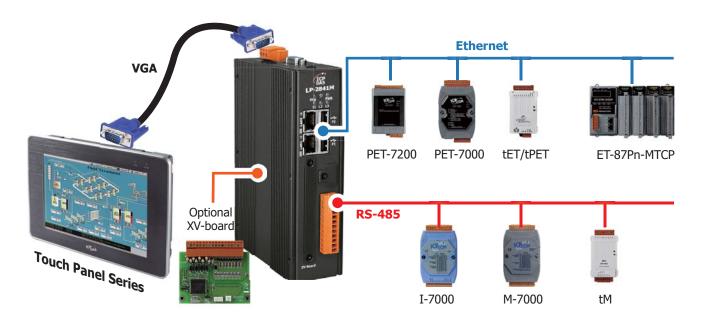
Linux Kernel OS



Main advantage of the LP-2841M is its high quality control system, including its stably properties, open source and the standard LinPAC SDK for Windows and Linux using the GNU C language, GUI software. The main purpose of LP-2841M is to allow the numerous enthusiastic Linux users to control their own embedded system easily within the Linux environment.

- LinPAC SDK for Windows and Linux
- Support for GNU C Language
- Support for GUI: Using GTK + Library
- Support for USB to Serial Converter
- Support for DCON, Modbus and SNMP Protocols

Appications

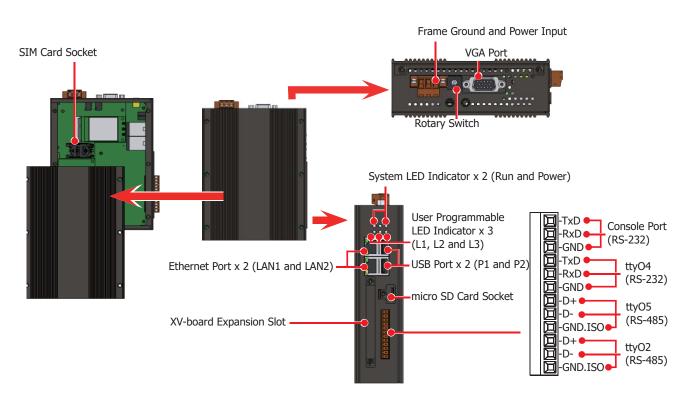


Specifications

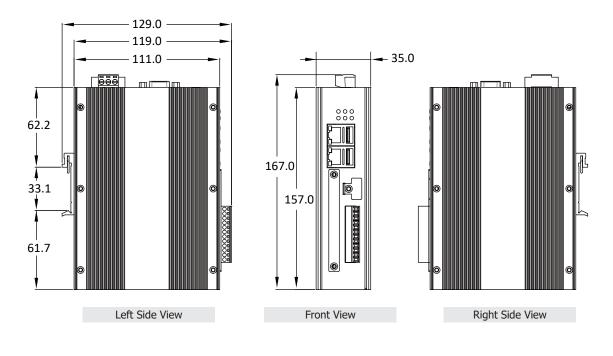
System Software			
OS	Linux Kernel 5.4.70		
Service	SFTP server, Web server, SSH server		
SDK	LinPAC SDK (GCC based toolchain and LinPAC Libraries)		
Main Unit			
CPU	4x Cortex-A53 core platforms up to 1.6 GHz per core		
System Memory	2 GB DDR3 SDRAM		
Flash	8 GB eMMC		
FRAM	64 KB		
Storage	4 GB microSD card (up to 32 GB)		
RTC (Real Time Clock)	Provide seconds, minutes, hours, dates, day of week, month, year		
64-bit Hardware Serial Number	Yes, for software copy protection		
Watchdog Timer	Dual Watchdog Timer		
Rotary Switch	1 x 10 Position (0 ~ 9)		
LED Indicator	1 x Power, 1 x Run, 3 x Programmable		
Buzzer	Yes		
Display			
VGA	Analog RGB, Resolution: Up to 1280 x 1024		
I/O Expansion			
I/O Туре	One optional XV-board		
Communication Ports			
Ethernet	2 x RJ-45, 10/100/1000M Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED Indicators)		
USB	2 x USB 2.0 (host)		
Console Port	RS-232 (RxD, TxD and GND); Non-isolated		
ttyO2	RS-485 (Data+, Data-); Non-isolated		
ttyO4	RS-232 (RxD, TxD and GND); Non-isolated		
ttyO5	RS-485 (Data+, Data-); 2500 VDC isolated		
Mechanical			
Casing	Metal		
Dimensions (W x L x H)	35 mm x 167 mm x 119 mm		
Ingress Protection Rating	IP30 (Aluminum)		
Installation	DIN-Rail, Wall mounting		
Environmental			
Operating Temperature	-25 ~ +75 °C		
Storage Temperature	-40 ~ +80 °C		
Humidity	10 ~ 95 % RH (Non-condensing)		
Power			
Input Range	+12 ~ 48 VDC		
Consumption	4.8 W (0.2 A @ 24 VDC)		



Appearances



Dimensions (Units: mm)



Ordering Information

LP-2841M CR Linux Based Metal PAC with Cortex-A53 CPU and 2 LAN Ports (RoHS)	
------------------------------------------------------------------------------	--

Accessories

XV-Board	Add-on I/O Expansion Board