

## PAR-2013D

**PAR-2013D** is an **AMD LX-800** DIN-rail mount industrial fanless embedded computer which features LAN, USB, VGA, RS-232, and isolated RS-422/485 and digital I/O.

### Specifications

<b>Fanless Platform</b>	Low power, low operation temperature Fanless platform with active cooling
<b>Form Factor</b>	DIN rail heavy-duty steel embedded platform
<b>Dimensions</b>	60mm (W) X 180 mm (H) X 130mm (D)
<b>Processor</b>	<b>North Bridge:</b> AMD LX-800 500 MHz ultra low power processor, 64kb I-cache/64kb D-cache and 128kb L2 cache <b>South Bridge:</b> CS-5536 South bridge multi-function chipset
<b>Chipset</b>	Intel® 945GSE North & ICH 7-M South Bridge Chipset
<b>Memory</b>	266/400 MHz DDR, 1 channel SO-DIMM, up to 1 GB
<b>BIOS</b>	512KB Award System BIOS
<b>ACPI Function</b>	Software Power Off (ATX mode) Wake On LAN(S5)/Keyboard(S1)/Ring(S1)/RTC alarm(S1)
<b>Linux Driver Support</b>	Watch-Dog Timer, System Status LED & Event Trigger Drivers
<b>Disk Drive Storage</b>	1 IDE DMA 66/100 2.5" & 1 SATA interface, 1 2.5" HDD Drive bay and 1 CF slot
<b>FE Ethernet</b>	2 ports PCI I/F Realtek 8100(FE) LAN controller with RJ-45 connector Supports MDIX media auto reverse function Supports Boot from LAN function
<b>Display Support</b>	1 DB-15 VGA supports 1920 x 1440 x 32 bpp at 85Hz 1600 x 1200 x 32 bpp at 100 Hz
<b>PCI Expansion</b>	1 Mini-PCI & 1 PCI-104 plus expansion interface
<b>Watchdog Timer</b>	Software programmable WDT from 1 to 255 seconds
<b>RTC &amp; CMOS RAM</b>	Real Time Clock, 256 bytes CMOS RAM built-in chipset
<b>RS-232/485</b>	1 DB-9 RS-232, 1DB-9 RS-232/485, optional DC-output
<b>RS-422/485</b>	Signal with 2500Vrms isolation protection (1 Sec) 5V Power with 3000V DC isolation protection External jumper wire Enable/Disable Termination Resistor
<b>Digital I/O</b>	2500V isolation protection <b>3D-In:</b> Low Level: 0-3V, High Level: 10-50V <b>2D-Out:</b> 500mA drive capability
<b>Battery &amp; Clock</b>	<b>Battery Back-up SRAM &amp; Real Time Clock RAM:</b> 256 bytes CMOS RAM built-in ICH-4 chipset Backup by non-rechargeable Lithium cell battery
<b>External I/O</b>	1 DB-15 VGA, 2 USB 2.0, 2 RJ-45 LAN, 1 DB-9 RS-232, 1 DB-9 RS-232/485, 2 RS-422/485 with 3.5 mm DIN connector, D-in/out with 3.5 mm 8 pin DIN connector, 1 DC input power jack, 1 power ON/OFF switch, 3 LED for power/storage/status information
<b>Power Supply</b>	DC input 9-30V, typical power consumption: 7W
<b>Power ON/OFF Mode</b>	AT or ATX Power ON/OFF mode
<b>Power Adapter</b>	60W industry grade power adapter <b>AC Input:</b> 100-240 V full range at 50-60 Hz <b>DC Output:</b> 12V , 5A maximum, 3-pin lockable power jack
<b>Environment</b>	<b>Operation Temperature:</b> 0°C to 40°C (32°F to 104°F) <b>Storage Temperature:</b> -20°C to 80°C (-4°F to 176°F) <b>Relative Humidity:</b> 10% to 90% (Non-condensing)
<b>Certification</b>	CE Class A, FCC Class A
<b>Technical Support</b>	Free technical support

**Product Name:** PAR-2013D / Pipal 2013D  
**Part Number:** PAR-2013D



### FEATURES

- ✓ *AMD LX-800 500 MHz low power embedded processor*
- ✓ *Isolated RS-422/485 and Isolated Digital I/O*
- ✓ *LAN, USB, VGA, RS-232, Mini-PCI*
- ✓ *Mini PCI & PCI 104 expansion*
- ✓ *DIN rail mount*
- ✓ *1 IDE & 1 SATA interface, 1 CF storage device interface*
- ✓ *DC 9V-30V power input*

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