

## PAR-2192M

**PAR-2192M** features an **Intel® D510 Dual-Core** 1.6GHz processor. This fanless embedded system supports GSM/GPRS/WCDMA/HSDPA and GPS.

### Specifications

<b>Fanless Platform</b>	Low power, low operation temperature Fanless aluminum alloy embedded system
<b>Dimensions</b>	208mm (W) X 115 mm (H) X 230mm (D)
<b>Processor</b>	Intel® Atom Dual-core D510 1.6 GHz low power processor 512KB L2 Cache, supports 64 bit, HT, XD technology Built-in media grade high performance Graphic engine
<b>Chipset</b>	Intel® ICH 8-M South Bridge Chipset
<b>Memory</b>	On board 512MB + 1 SO-DIMM Socket, up to 2.5 GB without ECC, 667 MHz DDR 2 Memory
<b>BIOS</b>	Phoenix BIOS, Support Console Redirection & Power On After Power failure
<b>Power Management</b>	S3, S4 suspend mode Low power protection design for boot-up and shutdown µP detection ignition status for 8 level power ON/OFF delay
<b>3.5G Mobile Wireless</b>	Sierra MC8790V, Supports GSM/GPRS/EDGE/WCDMA/HSDPA, flexible tri-band or quadband
<b>GPS Support</b>	SiRF-3 high sensitivity GPS, 20 channel tracking
<b>DVR Function</b>	4 channel NTSC/PAL H.264 120/100 fps @ D1 DVR function SDK support VC++ / NET / BCB / VB / V4L2
<b>Disk Drive Storage</b>	1 Removable HDD with Anti-vibration, 1 internal SATA HDD
<b>Expansion</b>	1 internal SATA H, 1 Mini PCI, 1 Mini PCIe, 1 PCI-32
<b>Ethernet</b>	1 Realtek 8111 100/1000 Mbps LAN interface with Wake-On-LAN & DMI
<b>Watchdog Timer</b>	Programmable WDT from 1 to 255 seconds
<b>Display Function</b>	VGA, 18-bit dual channel LVDS
<b>Hardware Monitor</b>	Monitors voltage and temperature
<b>Audio</b>	ALC655 Codec
<b>Smart Battery Interface</b>	5000 mAh Smart Battery Kit
<b>RS-232/485</b>	2 DB-9 RS-232/485, 1 DB-9 RS-232, all optional DC output
<b>Isolated 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>Isolated CAN</b>	CAN 2.0B provide by dedicate MCU, Speed up to 921Kbps
<b>Front Panel Extend I/O</b>	1 power button, 1 GPRS/GPS power ON/OFF switch, 1 USB, 2 system status LED, 1 GPRS power LED, 6 GPRS LEDs (3 speed mode/3 signal status), 1 SIM card socket, 5 SMA type Antennas (HSDPA/GPS/WLAN), 1 removable 2.5" SATA HDD
<b>Rear Panel Extend I/O</b>	Screw-Lock DC power input, 3-pin connector, 2 DB-9 RS-232/485, 1 DB-9 for Digital-IO & Ignition status, 1 DB-15 VGA, 1 CAN Bus, 4 USB, 1 x 100/1000 Mbit LAN connector, 1 DB-15 VGA connector, 2 DVI connector for 4 channel DVR Video and Audio input, 1 Micro-phone-in, 1 Speaker-out, Power LED, HDD LED, 1 Power button
<b>Power Supply</b>	DC 6V-34V / 1.5-5 A input (Optional DC 6V-80V)
<b>Power ON/OFF Mode</b>	AT or ATX Power ON/OFF mode
<b>Environment</b>	<b>Operation Temperature:</b> -30°C to 50°C (-22°F to 122°F) <b>Storage Temperature:</b> -40°C to 80°C (-40°F to 176°F) <b>Relative Humidity:</b> 10% to 90% (Non-condensing) <b>Vibration:</b> 2G @ 5-500Hz random with CF, SSD & HDD
<b>OS Support</b>	Windows XP Professional / Embedded, Windows 7, Linux
<b>Certification</b>	CE Class A, FCC Class A, E13 Mark
<b>Technical Support</b>	Free technical support

**Product Name:** PAR-2192M / Pipal 2192M  
**Part Number:** PAR-2192M



### FEATURES

- ✓ *Intel® Dual-core D510  
1.6 GHz Processor*
- ✓ *Supports GSM / GPRS / HSDPA / GPS  
and ignition power control*
- ✓ *DDR-2 667MHz, On board 512MB +  
SO-DIMM, up to 2.5 GB without ECC*
- ✓ *1 PCI-32, 1 Mini PCI, 1 Mini PCIe slot*
- ✓ *DC 6V to 34V power input,  
up to DC 80V*
- ✓ *Isolated Digital I/O and CAN 2.0B*

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