

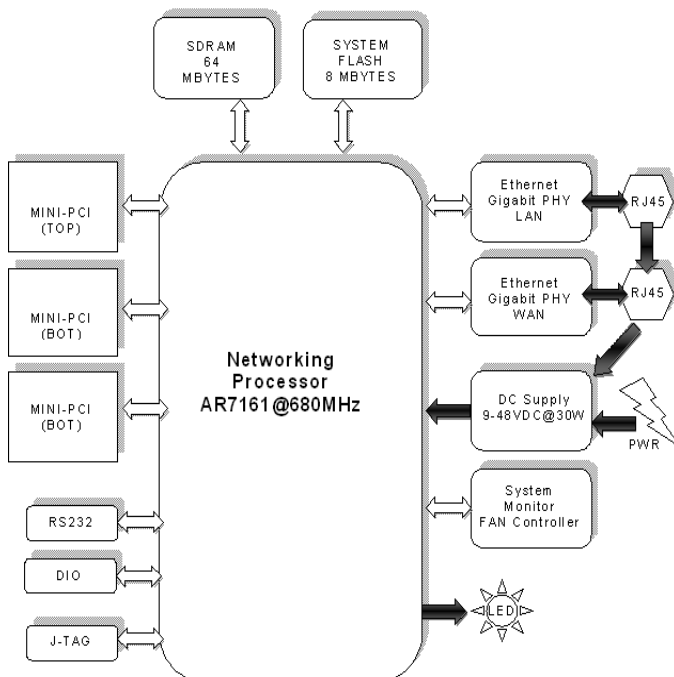
## MaxR-7300

680 MHz Platform, 3 MiniPCI Slots,  
Gigabit Ethernet & PoE

### Powered by OpenWRT

MaxR-7300 is a Single board Network Platform designed to be a Router/Access Point/CPE solution. This platform supports OpenWRT, provides a reduced development cycle. It has a powerful 32-bit MIPS 24K processor with clock speed of 680 MHz, 3 Mini-PCI slots and Gigabit Switch.

### Functional Diagram



### Product Highlights:

- Atheros, AR7100 Product Family, AR7161 Wireless LAN Processor
- 680 MHz Processing Speed
- 32-bit MIPS 24K Processor Core
- Three Type-III Mini-PCI Slots
- Atheros AR8316, Five Port Gigabit Ethernet Switch (4 LAN + 1 WAN)
- 8 MB SPI flash
- 64 MB SDRAM Memory
- 2 x USB 2.0 Host
- High Speed UART and GPIOs
- Rich Media and Peripheral Interfaces (serial, I<sup>2</sup>S)
- JTAG
- Front panel LED
- Reset Switch
- Active PoE
- DC Power Jack
- Ultra low power and energy profile
- Extreme Temperature support
- RoHS Compliant

## Technical Specifications

| System Information                |  |
|-----------------------------------|--|
| <b>Radio Chip</b>                 | Atheros AR7161 680MHz Networking Processor   |
| <b>Memory</b>                     | 64MB ( 32 x 2 ) DDR SDRAM  |
| <b>Flash</b>                      | 8MB SPI Flash  |
| <b>Mini-PCI Slot</b>              | Three Type-III Mini-PCI Slot   |
| <b>Gigabit Switch</b>             | Atheros AR8316 Gigabit Switch  |
| <b>Ethernet</b>                   | WAN 1 x Gigabit Base Ethernet Port (with Auto MDI/ MDIX)<br>LAN 4 x Gigabit Base Ethernet Port (with Auto MDI/ MDIX) |
| <b>PoE (Optional)</b>             | PoE with 802.3AT/802.3af (Input Voltage Range: 48V DC/ AC)<br>WAN Port PoE Input Only                                |
| <b>USB</b>                        | USB2.0 x 2   |
| <b>LED Pin Header</b>             | Yes  |
| <b>Push Button Reset/ WPS</b>     | Yes  |
| <b>Watch Dog Timer</b>            | Yes  |
| <b>GPIO/DIO (RS232/ I2C/ PCM)</b> | 14 Pins Header   |
| <b>JTAG Debug Interface</b>       | 14 Pins Header   |
| <b>DC Jack Input</b>              | Range 12V/ 18V 3A DC Voltage   |
| <b>Power Consumption</b>          | 30W Max  |
| <b>RoHS Compliance</b>            | Yes  |
| <b>Humidity</b>                   | 5% to 98% non-condensing   |
| <b>Temperature Range</b>          | Operating Temperature: -40°C to +85°C<br>Storage Temperature: -60°C to +150°C  |
| <b>Dimension (in mm)</b>          | 120 x 185 (mm)   |
| <b>Weight</b>                     | 180g   |
| Software Information              |  |
| <b>Development Tools</b>          | OpenWRT  |