**H/W Specifications**

<table>
<thead>
<tr>
<th>CPU / Memory</th>
<th>1 x SD 1.0 compliant socket inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory: 64MB SDRAM and 16MB NAND Flash</td>
<td>Data Rate: Up to 12Mbps</td>
</tr>
<tr>
<td>CPU: Linux-based ARM9 Programmable Automation Controller</td>
<td>General</td>
</tr>
</tbody>
</table>

**CPU / Memory**

- 1 x SD memory card slot included for storage expansion
- 1 x RS-232 port, 1 x RS-485 port
- 2 x 10/100Mbps Ethernet ports
- 8 x Darlington-pair digital outputs to drive external relays
- 16 x opto-isolated digital inputs
- 8 x x 10/100Mbps Ethernet ports
- 1 x RS-232/232 port, 1 x RS-485 port
- 2 x USB 2.0 ports for add-on functionality expansion
- 1 x SD memory card slot included for storage expansion
- GNU C / C++ toolchain is included
- Linux kernel 2.6.14 OS with file system
- 64MB SDRAM and 16MB NAND Flash
- 16 x opto-isolated digital inputs
- 2 x USB 2.0 host ports
- 8 x x 10/100Mbps Ethernet ports
- 1 x RS-232 port, 1 x RS-485 port
- 2 x USB 2.0 host ports
- 5V / 1A power adapter
- 64MB SDRAM and 16MB NAND Flash
- 16 x opto-isolated digital inputs
- 2 x USB 2.0 host ports
- 5V / 1A power adapter

**S/W Specifications**

<table>
<thead>
<tr>
<th>General</th>
<th>Pre-installed Utilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS: Linux, kernel 2.6.14</td>
<td>bash: shell command</td>
</tr>
<tr>
<td>Boot Loader: U-Boot 1.1.2</td>
<td>lynxlogin: login and user manager utility</td>
</tr>
<tr>
<td>File Systems: JFFS2, EXT2 / EXT3, VFAT / FAT, NFS</td>
<td>telnet: telnet client program</td>
</tr>
</tbody>
</table>

**Protocol Stacks**

- gcc, g++ for Linux
- GLIBC: POSIX Library
- amgrd: Artila manager daemon
- Tinylogin: login and user manager utility
- Tinylogin: login and user manager utility
- BusyBox: Linux utility collection
- U-Boot: Rapid startup of the system
- SD / MMC, UART, Real Time Clock, Buzzer, Digital I/O, Ethernet, Device Drivers
- GLIBC: POSIX Library
- USB Host Drivers (Could Be Customized)
- Flash disk
- WiFi (IEEE-802.11b/g)
- USB Host Drivers (Could Be Customized)
- U-Boot: BootRom 1.1.2
- File Systems: JFFS2, EXT2 / EXT3, VFAT / FAT, NFS

**Pre-installed Utilities**

- Scripting: C / C++ package compiler for Linux
- Cygwin
- GLIBC: POSIX Library
- Quickboot: Rapid startup of the system
- VNC: Virtual Network Computing
- USB Host Drivers (Could Be Customized)
- Flash disk
- WiFi (IEEE-802.11b/g)
- RS-232 adapters

**Ordering Information**

- Linux-based ARM9 Programmable Automation Controller
- CBL-F01M9-20 (91-09P9M9-001)
- Console Cable (10Pin Header to DB9 Male, 20cm)

**Features**

- Linux-based ARM9 Programmable Automation Controller
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