

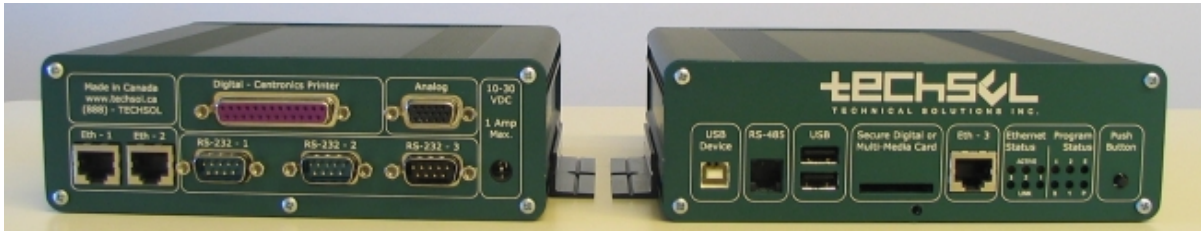
zPoint Products's Communications Gateway Products

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1. Introduction to zPoint Products's Gateway Products

Techsol is a world leader in Linux on ARM technology. The Gateway product line is a collection of low-power, embedded computers that are rich with communications capabilities. Gateways either include a [Medallion Computer Module](#) or they incorporate the same Hardware Platform enabling them to leverage zPoint Products's vast Software expertise and features.



Gateway Communications Computer with Java in All-Metal Enclosure

2. Gateway Models

2.1. Gateway 1

zPoint Products's Gateway 1 has been deployed in numerous locations since 2004. They have served reliably on multiple continents, collecting data and interfacing to a variety of new and legacy devices.

The Gateway 1 is powered by the HY7201 Medallion CPU module operating at up to 60 MHz.

It features:

- Ultra-Low-Power operation: consuming less than 2 watts at full speed!
- a 32-bit RISC processor running Linux 2.4.x
- 32 megaBytes of SDRAM
- 34 megaBytes of FLASH (2 megs NOR, 32 megs NAND)
- power management options to support battery-powered data acquisition systems
- 2 Ethernet ports using RJ-45 connectors with full Linux support and security options
- 3 RS-232 ports using DE-9 connectors, all with modem-control lines
- RS-232-3 also has a jumper option to provide +5 VDC on pin #9 for devices (such as bar-code scanners)
- 1 RS-485 port using an RJ-12 connector with automatic direction control.
- 2 USB 1.1 Host ports with full support for USB input devices, storage devices, plus support for select wireless devices
- 1 USB 1.1 Device (Gadget) port with full support for TCP/IP over USB

- 1 Digital I/O port using a DB-25 connector in the format of a Centronics printer port (which can be used for printing too!)
- 1 DC power jack using a 2.1 x 5.5mm connector
- 1 VGA/SVGA Video output on a DE-15 connector for connection of CRT or LCD monitors
- 2 indicator LEDs for each Ethernet port
- 4 indicator LEDs under program (software) control
- 1 MMC/SD connector for storage expansion
- 1 panel push-button accessible by your software

2.2. Gateway 2

zPoint Products's Gateway 2 has been in field trials since 2005.

The Gateway 2 is powered by the SA2410 Medallion CPU module operating at up to 266 MHz.

It features:

- Ultra-Low-Power operation: consuming less than 2 watts at full speed!
- a 32-bit RISC processor running Linux 2.6.x
- 64 megaBytes of SDRAM on a 32-bit-wide bus operating at up to 133 MHz
- 66 megaBytes of FLASH (2 megs NOR, 64 megs NAND)
- power management options to support battery-powered data acquisition systems
- 2 Ethernet ports using RJ-45 connectors with full Linux support and security options
- 3 RS-232 ports using DE-9 connectors, all with modem-control lines
- RS-232-3 also has a jumper option to provide +5 VDC on pin #9 for devices (such as bar-code scanners)
- 1 RS-485 port using an RJ-12 connector with automatic direction control.
- 2 USB 1.1 Host ports with full support for USB input devices, storage device, plus support for select wireless devices
- 1 USB 1.1 Device (Gadget) port with full support for TCP/IP over USB
- 1 Digital I/O port using a DB-25 connector in the format of a Centronics printer port (which can be used for printing too!)
- 1 DC power jack using a 2.1 x 5.5mm connector
- 2 indicator LEDs for each Ethernet port
- 4 indicator LEDs under program (software) control
- 1 SD/MMC connector for storage expansion
- 1 panel push-button accessible by your software

2.3. Gateway Express

zPoint Products' Gateway Express will be released in 2006.

The Gateway Express is an integrated, single-board solution powered by a Samsung s3c2410a CPU operating at up to 200 MHz.

It features:

- Ultra-Low-Power operation: consuming less than 2 watts at full speed!
- a 32-bit RISC processor running Linux 2.6.x
- 32 megaBytes of SDRAM
- 34 megaBytes of FLASH (2 megs NOR, 32 megs NAND)
- power management options to support battery-powered data acquisition systems
- 1 Ethernet port using RJ-45 connector with full Linux support and security options
- 1 RS-232 ports using DE-9 connector, with modem-control lines
- 1 RS-485 port using an RJ-12 connector with automatic direction control.
- 1 USB 1.1 Host ports with full support for USB input devices, storage device, plus support for select wireless devices
- 1 USB 1.1 Device (Gadget) port with full support for TCP/IP over USB
- 1 8-bit bus port using a SIP connector (internal)
- 1 DC power jack using a 2.1 x 5.5mm connector
- 2 indicator LEDs for the Ethernet port
- 4 indicator LEDs under program (software) control
- 1 SD/MMC connector for storage expansion
- 4 panel push-buttons accessible by your software

3. Other Gateway Information

There is more information on zPoint Products's Gateway devices.

- SOFTWARE [Just click here](#) for **standard Applications Software for zPoint Products's Gateway products.**
- CERTIFICATIONS [Just click here](#) for more information on standards certifications for zPoint Products's Gateway products.

3.1. Gateway Power

Power can be applied at the power-jack, or at the RJ-12 connector for the RS-485 signals. To enable the latter feature, a jumper must be installed inside the unit in the area of the power-supply. (this is a plain "shunt" connecting 2 pins that are 0.025" square and centered 0.100" apart)

Power is received from pins #1 and #6 of the RJ-12 connector.

Ground is on pins #2 and #5.

Data signals are on the middle pair (as in all telecom-type connectors) specifically pins #3

and #4.

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