

## **August 2008**

### **Gateworks Corporation Introduces the Cambria Network Platform Family.**

**SAN LUIS OBISPO, CALIFORNIA – August 9, 2008** - Gateworks Corporation, a leading provider of OEM computer solutions, today introduced a new line of network computer boards known as the Cambria Network Platform. The first member, the GW2358 is targeted for next generation high performance multi-radio wireless access points, mesh networks, backhubs, repeaters and VPN appliances.

The GW2358 features an Intel® IXP435 XScale® processor operating at 667MHz, 128Mbytes of DDRII-400 SDRAM, and 32Mbytes of Flash. Peripherals include four high power Type III Mini-PCI sockets, two 10/100 Base-TX Ethernet ports with IEC-6100-4 ESD and EFT protection, two USB 2.0 Host ports, and a Compact Flash socket for onboard storage expansion. Additional features include digital I/O, serial EEPROM, real time clock (RTC) with battery backup, system monitor to track operating temperature and input voltage, RS232 serial port for management and debug, programmable watchdog timer and extended temperature operation. Additionally, as an ordering option, the GW2358 can be configured with an on board GPS receiver and an additional RS485 serial port. Power is applied through a dedicated barrel jack connector or through either Ethernet connector using a passive power over Ethernet (PoE) architecture. The mechanical dimensions and front panel connector locations are compatible with the existing Avila GW2348 platform for backward compatibility.

The Intel IXP43x network processor used on the Cambria is the newest member of Intel's network processor family and has been designed for the most demanding networking applications. The IXP43x combines a high-performance Intel XScale core with additional network processing engines (NPEs) to achieve wire-speed packet processing performance. The IXP43x processor includes integrated hardware acceleration of popular cryptography algorithms (SHA-1, SHA-256, SHA-384, SHA-512, MD5, DES, 3DES, AES) for wireless and VPN applications that require a high level of security.

The GW2358 features a wide range 9-48VDC power input with both reverse polarity and transient protection which can supply up to four high power Mini-PCI radios giving OEM's the flexibility to support any of the latest 802.11 radio technologies (802.11ab/g, 802.11n, WiMax). The wide power input range allows the GW2358 to be used in a variety of applications ranging from automotive/transportation to solar and battery powered wireless sites. An on board temperature and voltage monitor allows for remote system monitoring. A programmable watchdog timer insures system health and reliability.

For applications which require location information, an optional high sensitivity Trimble Copernicus GPS receiver can be loaded directly on the board. The Copernicus GPS receiver features -160dBm tracking sensitivity and -148dBm acquisition sensitivity allowing it to be used in demanding applications with marginal satellite visibility. The GPS pulse per second (PPS) signal can also be used in conjunction with the IXP43x's internal IEEE1588 time synchronization hardware to provide synchronization between multiple boards. The board is preloaded from the factory with Redboot Boot-Loader and the OpenWrt Linux distribution. Redboot allows for easy Flash updating and network boot. The OpenWrt Linux distribution is a robust and stable Linux distribution designed for wireless application and gives developers an open source framework from which to build fully custom applications. OpenWrt features a fully writable file system along with package management which allows developers to easily add in application specific software packages.

Pricing for the GW2358-4 starts at US\$243 in OEM quantities and can be purchased online at <http://shop.gateworks.com>. A development kit is also available which includes a USB JTAG Flash programmer, passive PoE power supply/injector, complete cable set along with a Linux software development CD that includes the OpenWrt based BSP. Customers can also specify customized versions of the GW2358 for volumes as low as 100 pieces. Gateworks' flexible in-house assembly allows customers to optimize cost and performance of the board to suit their specific application. Items such as processor speed, processor type, DDR memory, Flash and peripherals can be selected to create a unique customer configuration. Documentation for each special configuration is maintained under revision control to insure long term product consistency.

The GW2358-4 is available now. For further information, visit the company website at:<http://www.gateworks.com/>.

### **About Gateworks Corporation**

Gateworks Corporation is a leading provider of network computers supporting wireless network infrastructures. Gateworks network computer products cover a broad range of applications from customer premises equipment to backhaul repeaters, switches, access points and concentrators. Gateworks provides the hardware to allow OEMs to develop unique and custom solutions to address their customer's needs. For more information on Gateworks Corporation, its products and services, call (805) 781-2000, or visit the company's website at <http://www.gateworks.com>