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WebLink-2059

Web-enabled Device
Connection with PC Card



Introduction

Advantech WebLink-2059 is a powerful embedded and web-enabled solution platform that connects devices data with enterprise systems. WebLink-2059 automatically captures real-time data from the plant floor and then analyzes, controls and distributes this information to enterprise systems via the Internet. You can easily access the data through graphic interfaces anytime and anywhere. Its powerful I/O connectivity lets the WebLink-2059 easily get data from the ADAM-4000/5000 series to versatile legacy controllers and 3rd party I/Os. In the event of an emergency, WebLink can broadcast alarms or notify key people via e-mail. It is possible to then access or even diagnose the system problem immediately through any browser. Using Microsoft Windows® CE embedded features and compact flash storage, the WebLink-2059 offers a high reliability platform for industrial automation with no risk of hard disk crashes.

Embedded web-enabled HMI/SCADA software

HMI/SCADA software and HTTP v1.10 compliant (a persistent connection allows multiple downloads with less overhead, and also improves caching while making it easier to create virtual hosts) web server are established on WebLink-2059 and allow you to remotely view and control I/O data from anywhere on anytime.

Rich Legacy Controllers and OPC device connection support

With four RS-232/485 ports and industrial standard OPC server, WebLink-2059 can connect versatile I/Os and control devices including Advantech ADAM-4000, 5000 series, Allen-Bradley PLC, Mitsubishi A type & FX series PLC, Modbus protocol PLC, Omron C type PLC and Profibus DP compliant device.

Alarm/Event instantly contact through email

WebLink-2059 automatically and immediately sends out e-mail to a dedicated person or address if an alarm or event of an emergency occurs.

Features

- Windows® CE-based open embedded system
- Embedded Web-enabled HMI/SCADA software
- Rich legacy controllers and OPC device connection supporting
- Alarm/Event instantly handling through email
- Reliable and Powerful Out-of-Box solution platform
- 11MHz Wireless LAN (Windows® CE) supported

Windows®CE-based open embedded system

With no hard disk needed, the WebLink-2059 features increased reliability. More importantly, Windows® CE unfailingly performs time-sensitive tasks with deterministic responses to events. This is a key feature in most industrial applications.

Reliable and Powerful Out-of-Box solution platform

WebLink-2059 provides reputed industrial hardware with Pentium grade processor and Windows® CE-based embedded software bundled solution. This translates into long-time stability and powerful computing capability to fulfill most different applications.

Wireless LAN extension empower your networking flexibility

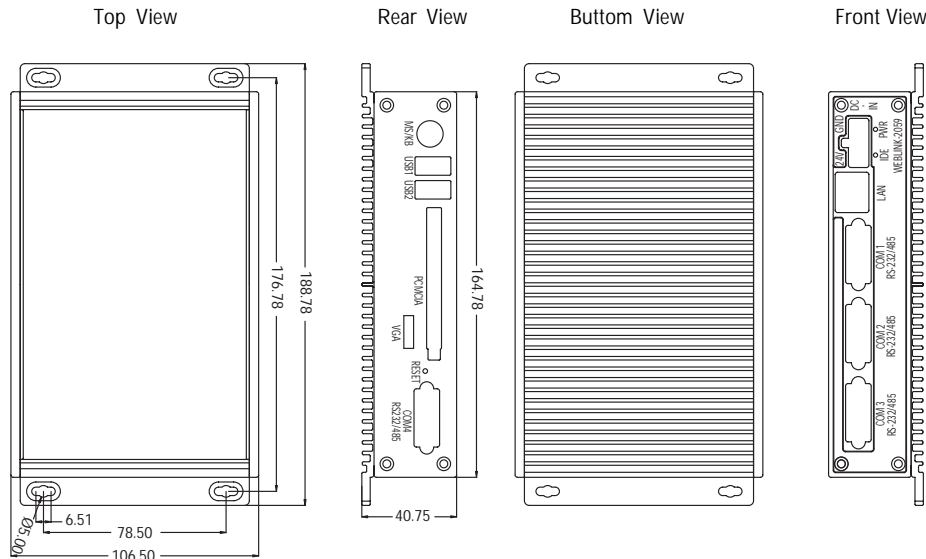
There are two USB ports and one PC Card slot in WebLink-2059 for you to easily add peripherals such as storage devices, modems and more. Advantech also offers you Wireless LAN solution, too. The Windows® CE drivers are already installed and thoroughly tested under WebLink-2059.

Hardware Specifications

- **CPU:** NS Geode GX1-300 MHz
- **Chipset:** NS CS5530A
- **BIOS:** AWARD 256 KB FLASH BIOS
- **RAM:** 64 MB SDRAM on board
- **VGA:** Supports VGA and VESA, up to 1280 x 1024 @ 8 bpp and 1024 x 768 @ 16bpp resolution, up to 4 MB share memory
- **On-board I/O:** 2×USBs, 1×keyboard and PS/2 mouse, 4×RS-232/485 interfaces with auto flow control function
- **LAN:** One 10/100Base-T Ethernet, Realtek 8139C chipset supports
- **PC Card:** One PC Card slot
 - Support CardBus (Card-32) Card and 16-bit (PCMCIA 2.1/ JEIDA4.2) Card
 - Support +5V, +3.3V and +12V@120mA working power

Dimensions

Unit: mm



- **SSD:** One Type I / Type II CompactFlash™ card slot inside the chassis
- **LED:** One power LED, one HDD LED
- **Power supply voltage:** 24 V_{DC} (input range 12-30 V_{DC})
- **Max. power requirements:** +24V@1A
- **Operating temperature:** 0 ~ 55° C (0 ~ 131° F)
- **Storage temperature:** -20 ~ 80° C (-4 ~ 185° F)
- **Chassis size:** 164.8 mm (W) x 106.5 mm (L) x 35.5 mm (H) (6.5" x 4.2" x 1.4")
- **Weight:** 0.8 Kg
- **Certification:** CE certified

Web-based SCADA/HMI Features

- **OS:** Windows® CE 3.0
- **Graphics:** Support more than 15 imported graphics formats and 40 pre-defined dynamic effects and an extensive symbol library.
- **Alarms:** Allows sending alarms to screen, e-mail, Web browser and archive onto file, printer and SQL-database.
- **Trending:** Keep track of process behavior Online or through historical trending
- **Recipes and Reports:** Offers flexible, user-defined recipe groups and user-configurable reports
- **Input/Output:** Supports 1,500 I/O tags, more than 140 devices drivers, OPC Client and various PC control packages
- **Math Expression:** Advanced math library with more than 100 standard functions with flexible scripting language
- **Industry Standards Connectivity:** Conform to industrial standards such as Microsoft DNA, OPC, DDE, ODBC, XML and ActiveX and integration with Microsoft Excel
- **Security:** Multi-level security for applications, including use over Intranets and Internet

Ordering Information

- **WebLink2059/BAR:** Web-enabled Device Connection Hardware Device
- **WebLink2059/CE:** Web-enabled Device Connection with Windows® CE
- **WebLink2059/SDA:** Web-enabled Device Connection with Windows® CE and SCADA/HMI Runtime Server
- **WebLink2059/SKT:** WebLink-2059/SDA Starter Kit (ASTUDIO-WNT/DEV included)
- **ASTUDIO-WNT/DEV:** Advantech Studio for eAutomation Development Edition
- **WLAN-903BA/WLAN-903BE/WLAN-903BJ:** 11 Mbps Wireless LAN PCMCIA Adapter for US/European/Japan standard (Antenna Integrated)
- **PCD-100A-0008/-0016/-0032/-0064/-0096/-0128:** CompactFlash™ card with 8/16/32/64/96/128 MB memory
- **1700060202:** 6P-6P-6P 20cm PS/2 KB and Mouse cable
- **1703150101:** 6P-15P 10cm VGA cable



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