Introduction

Advantech’s BEMG-4110 is a fanless Energy Data Concentrator featuring an AMD Geode LX800 500MHz and rich interfaces (such as serial, USB and LAN). Installed with Advantech WinCE WebAccess, BEMG-4110 is a browser-based Energy Data Concentrator, whose Web Server function increases flexibility and convenience, making it easy to configure and maintain the system via Internet. With built-in driver, BEMG-4110 can connect with a variety of automation equipment and devices, and get data from them.

Specifications

General
- Certification: CE, FCC Class A, CCC
- Dimensions (W x D x H): 188.8 x 106.5 x 35.5 mm (7.5” x 4.2” x 1.4”)
- Enclosure: Aluminum
- Mounting: Wallmount, DIN-rail
- Industrial Grounding: Isolation between chassis and power ground
- Power Consumption: 15 W (typical)
- Power Requirements: 10 ~ 48 V DC (e.g. +24 V @ 1 A) (Min. 24 W), AT
- Weight: 0.8 kg
- System Design: Fanless with no internal cabling
- Remote Management: Built-in Advantech DiagAnywhere agent on Windows CE/XPe

System Hardware
- CPU: AMD Geode LX800 500MHz
- Memory: Onboard 256 MB DDR SDRAM
- Indicators: LEDs for power, IDE, diagnosis (programmable) and LAN (Active, Status)
- Buzzer for diagnosis (programmable)
- Keyboard/Mouse: 1 x PS/2
- Storage: SSD: 1 x internal type I/II CompactFlash® slot
- HDD: expansion kit for 2.5” IDE HDD (Option)
- Display: DB15 VGA connector, 1024 x 768 @ 60 Hz
- Watchdog Timer: Programmable 256 levels timer interval, from 1 to 255 sec

I/O Interface
- Serial Ports: 2 x RS-232/485, 2 x RS-232/422/485
  - Automatic RS-485 data flow control
  - RS-422/485 surge protection up to 2,000 Vocc
- Serial Port Speed: RS-232: 50 – 230.4 kbps;
  RS-422/485: 50 – 921.6 kbps (Max.)
- USB Ports: 2 x USB ports, EHCI, Rev. 2.0 compliant
- LAN: 1 x 10/100Base-T RJ-45 port

Features
- 2 x RS-232/485, 2 x RS-232/422/485 with automatic flow control
- 1 x 10/100Base-T RJ-45 port and 2 x USB 2.0 ports
- Fanless design with no internal cabling
- Built-in Windows® CE with Advantech WinCE WebAccess Energy Data Concentrator
- Supports various protocol drivers to communicate with different devices
- Multi-thread communication, fast response time
- Configured through web browser
- Easy to diagnose and maintain, which helps to reduce maintenance costs

Software Specifications
- Operating System: Windows CE 5.0

Advantech WinCE WebAccess Energy Data Concentrator:
- I/O Tag Number: 600
- Internal Tag Number: 600
- Web Client: 2
- Number of I/O Devices: 64 (max)

Environment
- Humidity: 95 % @ 40°C (non-condensing)
- Ingress Protection: IP40
- Operating Temperature: (IEC 60068-2-2, 100% CPU/ I/O loading)
  -10 ~ 55°C (14 ~ 131°F)
- Shock Protection: IEC 68 2-27
  CompactFlash®: 20 G @ DIN, half sine, 11 ms,
  50 G @ Wall/Panel, half sine, 11 ms
- Vibration Protection: IEC 68 2-6
  CompactFlash®: 2 Grms @ sine, 5 – 500 Hz,
  1 Oct./min, 1 hr/axis.
  HDD: 1 Grms @ sine, 12 – 300 Hz, 1 Oct./min,
  1 hr/axis.

Ordering Information
- BEMG-4110-AE: Energy Data Concentrator with 4 x COM, 1 x LAN

All product specifications are subject to change without notice