

FWA-3230A/B

1U Rackmount Network Application Platform with 4th gen. Intel® Xeon® Processor E3 series and Intel® Core™ i7/i5/i3 Processors



Features

- Supports Intel Xeon E3-1225/E3-1275/E3-1268 V3 and 4th generation Core™ i7-4770S/i5-4570TE/4570S and Pentium G3420/G3320TE, Celeron G1820/G1820TE
- Supports four DDR3L Un-buffered 1333/1600 DIMMs, up to 32 GB (FWA-3230A); two DDR3L Un-buffered 1333/1600 DIMMs, up to 16 GB (FWA-3230B)
- Six 10/100/1000 Mbps LAN on Board with up to 3 bypass segments
- Two 2.5" SATA HDDs / SSDs or 1x 3.5" HDD
- Up to two Advantech Network Mezzanine Cards (NMCs)
- IPMI2.0 compliant Remote Management (optional)



Introduction

The FWA-3230 1U network appliance can scale from entry-level performance using Intel® Celeron® and Pentium® processors to the mid-range segment using Intel® Xeon® E3 series processors, offering an outstanding price/performance ratio with each SKU. In addition to supporting the latest Haswell microarchitecture enhancements for increased CPU performance, virtualization support and I/O throughput, the FWA-3230 adds support for latest Gigabit Ethernet controllers, PCIe gen.3 connectivity, support for remote management and advanced LAN bypass to create state-of-the-art platforms for specific enterprise networking applications.

Memory configurations can include four DDR3L 1333/1600 DIMMs for up to 32GB in total. In the base configuration, the system comes with support for two 2.5" SATA HDDs/SSDs, LCM, RJ45 console, two USB ports and six Intel® I210-AT GbE controllers.

For I/O expandability, two standard PCIe full-height, half-length slots with rear access allow the integration of off-the-shelf PCIe adapters and up to two Advantech Network Mezzanine Card (NMC) slots offer further flexibility for additional front-panel network ports.

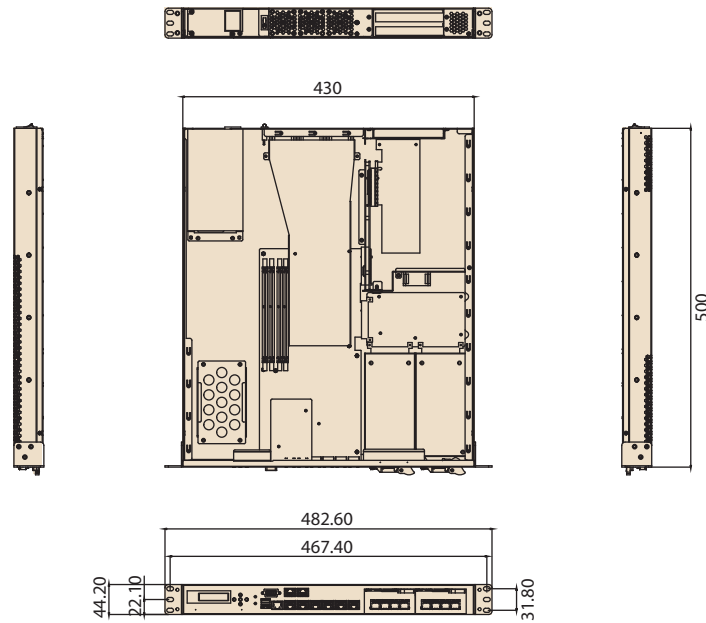
Featuring an optional server BMC in accordance with IPMI2.0, the FWA-3230 supports state-of-the-art remote and lights-out management for increased reliability, serviceability and improved total cost of ownership. Advanced features such as power supply monitoring via PMBus allow the whole platform to be remotely managed. All management firmware can be remotely upgraded using the industry standard HPM.1 protocol, same as the motherboard system BIOS. All upgrades are fail safe and support instant rollback allowing for full system recovery without the necessity for onsite service staff.

Specifications





| | | FWA-3230A | FWA-3230B |
|--------------------------------|------------------------|---|---|
| Processor System | CPU | Intel® Xeon® E3-1225/E3-1275/E3-1268 V3 / 4th gen. Intel vPro™ | Intel 4th gen. Core i7-4770S/i5-4570S/i5-4570TE Pentium G3420/G3320TE, Celeron G1820/G1820TE vPro™ processors (LGA1150) |
| | L2 Cache | 8 MB | 8 MB / 4 MB |
| Chipset | PCH | Intel® C226 PCH | Intel® H81 PCH |
| | DIMM sockets | 4 | 2 |
| Memory | Technology | Dual channel DDR3L 1333/1600 MHz ECC (Intel® Xeon® Processors only) Un-buffered memory | Dual channel DDR3L 1333/1600 MHz Non-ECC Un-buffered memory |
| | Capacity | Up to 32 GB | Up to 16 GB |
| | Expansion Slots | 2 x PCI-Express Gen.2 x4 FH/HL Expansion Slots(default configuration) Or 1 x PCI-Express Gen.2 x8 FH/HL Expansion Slot (optional) | Without PCIe riser card |
| Ethernet | LAN on Board | 6 x Intel I210-AT 10/100/1000 Mbps Ethernet with optional 3 segment advanced bypass | |
| | NMC modules | 2 x NMC modules with PCIe8 gen.3 interfaces Maximum 8GbE ports or 2 x 10GE ports. Please refer to the "Recommended NMC Module List" section for a list of currently available NMCs | |
| Storage | SATA | 1 x 3.5" or 2 x 2.5" internal HDD / SSD | |
| | Flash | 1 x mSATA socket 1 x USB 2.0 on board pin header for USB DOM | |
| Management Ports & Peripherals | USB | 2 x USB3.0 Type A connectors on the front 1 x USB3.0 pin header (C226) | |
| | Serial | 1 x RS232 Console port (RJ-45 connector) | |
| | LCD Module | 16 x 2 graphic display, 5 buttons | |
| | IPMI | LOM Module (optional) with Aspeed AST1050 chip Supports IPMI 2.0, redundant BIOS and remote, failsafe BIOS update | Without LOM module |
| | VGA | 1 x VGA pin header | |
| | TPM | Trust Platform Module (Optional) | |
| Power Supply | Wattage | 300W redundant AC PSU (redundant DC PSUs on request) | 300W non-redundant AC PSU |
| | Input | AC 100 ~ 240 V @ 50 ~ 60 Hz, full range PMBus support on redundant PSU | |
| Environment | Operating | Non-Operating | |
| | Temperature | 0 ~ 40° C (32 ~ 104° F) | -20 ~ 80° C (-4 ~ 167° F) |
| | Humidity | 5 ~ 85 % @ 40° C (104° F) | 5 ~ 95 % |
| Physical | Dimensions (W x L x H) | 430 x 500 x 44 mm (W x L x H), 16.6" x 19.7" x 1.7" | |
| | Weight (N.W) | 10 kg (22 lb) | |

Dimensions

Unit: mm



Recommended NMC Module List

| P/N | NMC-0107-10E | NMC-0108-10E | NMC-0803-10E | NMC-1004-10E |
|----------------|---|---|--|---|
| |  |  |  |  |
| Description | 4-port GbE card | 4-port GbE card | 8-port GbE card | 2-port 10 GbE card |
| LAN Controller | 1 x Intel® I350-AM4 | 1 x Intel® I350-AM4 | 2 x Intel® I350-AM4 | 1 x Intel® 82599 |
| Ports | 4 x RJ45 | 4 x SFP | 8 x RJ45 | 2 x SFP+ |
| Other | With LAN bypass option | Without LAN bypass | With LAN bypass option | Without LAN bypass |

For a full list of available / recommended NMC modules, please contact your Advantech representative.

Ordering Information

| Part Number | Description |
|---------------|---|
| FWA-3230A-00E | 1U, C226 PCH, 6 + 2 GbE ports, red. AC PSU, 2NMC bays |
| FWA-3230B-00E | 1U, H81PCH, 6GbE ports, single AC PSU, 2NMC bays |

Packing List

| Part Number | Description |
|-------------|----------------------------|
| 1700012272 | SATA Data Cable 25 cm |
| 1700018950 | RJ-45 Console Cable 220 cm |

Accessories

| Part Number | Description |
|-------------|-----------------------------|
| 1702002600 | Power cord 3P 180cm, USA |
| 1702002605 | Power cord 3P 180cm, Europe |
| 1702031801 | Power cord 3P 180cm, UK |
| 1700000237 | Power cord 3P 180cm, JP |
| 1700009652 | Power cord 3P 180cm, China |

