

# FWA-3210A/B

**1U Rackmount Network Application Platform based on Intel® Xeon™ E3 series and 2<sup>nd</sup> generation Core™ i7/i5/i3 processors**

**NEW**



## Features

- Supports Intel® Xeon® E3-1225/E3-1275 (FWA-3210A only) and 2<sup>nd</sup> generation Core™ i7-2600/i5-2400(FWA-3210B only) and i3-2120 / Pentium®-G850 / Celeron®-G540 Processors
- Supports four DDR3 Un-buffered 1066/1333 DIMMs, up to 32 GB (FWA-3210A); two DDR3 Un-buffered 1066/1333 DIMMs, up to 16 GB (FWA-3210B)
- Six 10/100/1000 Mbps LAN on Board with up to 3 bypass segments
- One 3.5" or One 2.5" SATA HDD / SSD
- Two Advantech Network Mezzanine Cards (NMCs)



## Introduction

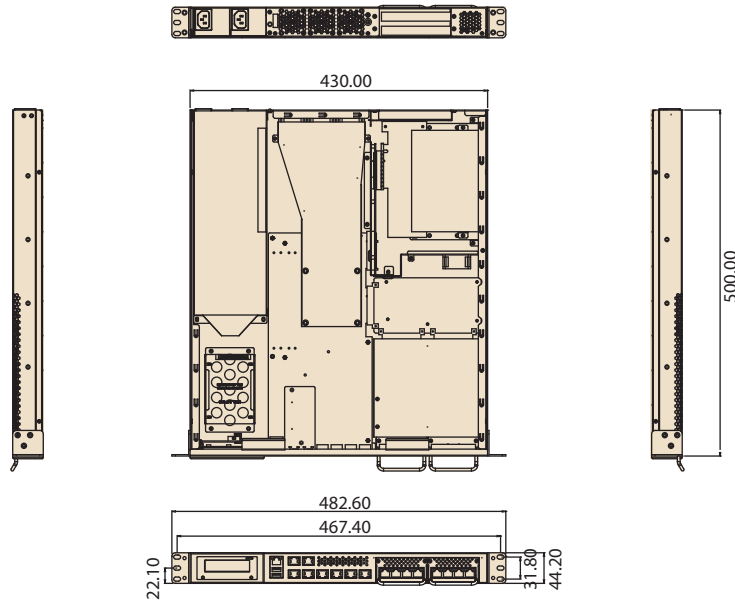
The FWA-3210 1U appliance can be configured with a range of Intel® processors, Ethernet ports, PCIe I/O options and Advantech's Network Mezzanine Cards (NMCs) to create cost-effective platforms for specific enterprise networking applications. The appliance is powered by processors utilizing the LGA-1155 socket, including the Intel® Xeon® E3-1225/1275, 2<sup>nd</sup> generation Intel® Core™ i7-2600/ i5-2400 /i3-2120, the Pentium®-G850 and the Celeron®-G540 Processor. Memory configurations can include 4 x DDR3 1333/1066 DIMMs for up to 32GB in total. In the base configuration, the system comes with a single internal 2.5" SATA HDD bay, 6 Intel® 82574L GbE controllers, and one PCIe x8 expansion slot. System features include an LCM, RJ45 console, and 2 USB ports. IPMI LOM management support is optional. Additional I/O and processor offload capacity is provided by support for two network mezzanine card modules. The FWA-3210 is 1U Network Appliance targeted at CPU-intensive applications such as high-end Unified Threat Management (UTM) and applications with large I/O bandwidth requirements such as quality and service control or content filtering and management.

## Specifications

|                                |                        | FWA-3210A   | FWA-3210B  |
|--------------------------------|------------------------|---|--|
| Processor System               | CPU                    | Intel Xeon E3-1225/ E3-1275/ 2 <sup>nd</sup> gen. Core i3-2120/ Pentium-G850 / Celeron-G540 processors  | Intel 2 <sup>nd</sup> gen Core i7-2600/i5-2400/ i3-2120 / Pentium-G850 / Celeron-G540 processors |
|                                | L2 Cache               | 8 MB / 6 MB / 3 MB / 2 MB   | 8 MB / 6 MB / 3 MB / 2 MB  |
| Chipset                        | PCH                    | Intel C206 PCH  | Intel H61 PCH  |
| Memory                         | Technology             | Dual channel DDR3 1333/1066 MHz ECC   | Dual channel DDR3 1333/1066 MHz Non-ECC  |
|                                | Capacity               | Un-buffered memory<br>Up to 32 GB   | Un-buffered memory<br>Up to 16 GB  |
| PCI-Express                    | Expansion Slots        | 2 x PCI-Express Gen.2 x4 FH/HL Expansion Slots (FWA-3210A Optional)<br>Or 1 x PCI-Express Gen.2 x8 FH/HL Expansion Slots (FWA-3210A Default Configuration)                    |  |
|                                | LAN on Board           | 6 x Intel 82574L 10/100/1000 Mbps Ethernet with optional 3 segment bypass   |  |
| Ethernet                       | NMC                    | 2 x NMC modules with PCIe x8 gen.2 interfaces<br>Maximum 8 GbE ports or 2 x 10GE ports. Please refer to the "Related Products" section for a list of currently available NMCs |  |
|                                | Mass Storage           | 1 x 3.5" or 1 x 2.5" SATA HDD / SSD<br>1 x CFast Socket (CompactFlash with native SATA interface)   |  |
| Management Ports & Peripherals | USB                    | 2 x USB2.0 Type A connectors  |  |
|                                | Serial                 | 1 x RS-232 Console port (RJ-45 connector)   |  |
|                                | LCD Module             | 16 x 2 character display, 5 buttons   |  |
|                                | IPMI                   | LOM Module optional   |  |
|                                | TPM                    | optional  |  |
| Power Supply                   | Watts                  | 275 W redundant AC PSUs (DC on request)   | 250 W non redundant AC   |
|                                | Input                  | 100 V ~ 240 V @ 50 ~ 60 Hz, full range  |  |
| Environment                    | Temperature            | Operating<br>0 ~ 40° C (32 ~ 104° F)  | Non-Operating<br>-20 ~ 75° C (-4 ~ 167° F)   |
|                                | Humidity               | 5 ~ 85% @ 40° C (104° F)<br>5 ~ 95%   |  |
| Physical Characteristics       | Dimensions (W x H x D) | 430 x 44 x 500 mm (16.6" x 1.7" x 19.3")  |  |
|                                | Weight                 | 10 kg (22 lb)   |  |

## Dimensions

Unit: mm



## Related Products

| P/N            | NAEM-0102       | NAEM-0103       | NMC-0801        | NAEM-1001          |
|----------------|-----------------|-----------------|-----------------|--------------------|
|                |                 |                 |                 |                    |
| Description    | 4-port GbE card | 4-port GbE card | 8-port GbE card | 2-port 10 GbE card |
| LAN Controller | 2x Intel 82576  | 2x Intel 82576  | 2x Intel 82580  | 1x Intel 82599     |
| Ports          | 4x SFP          | 4x RJ45         | 8x RJ45         | 2x SFP+            |
| Other          |                 | with LAN bypass |                 |                    |

## Ordering Information

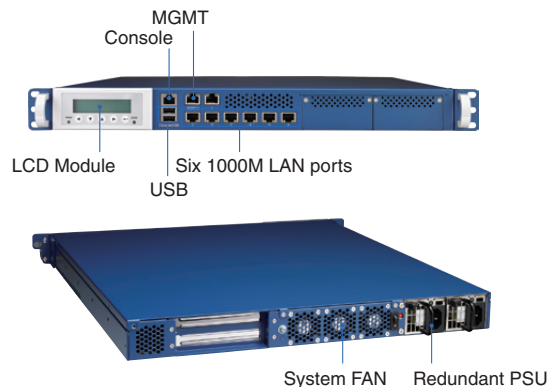
| Part Number     | Description                                      |
|-----------------|--|
| FWA-3210A-00A1E | 1U, C206, 6+2GbE, PSU (1+1), Support 2NMCs       |
| FWA-3210B-00A1E | 1U, H61, 6GbE, Single PSU, Support 2NMCs         |
| NAEM-0102E      | NAEM-0102 4-port GE module by SFP                |
| NAEM-0103E      | NAEM-0103 4-port GE module by RJ45 w/LAN bypass  |
| NAEM-1001E      | NAEM-1001 2-port 10GE module by SFP+             |
| NMC-0801E       | NMC-0801 8-port GE module by RJ45 w/o LAN bypass |

## Packing List

| Part Number | Description                                  |
|-------------|--|
| 1700012272  | SATA Data Cable 25 cm                        |
| 1700001237  | SATA Data Cable 30 cm                        |
| 1700000298  | VGA Port cable (for System installation use) |
| 1700018950  | RJ-45 Console Cable 220 cm                   |

## Accessories

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





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