

FWA-3231

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

Preliminary



Features

- Supports Intel® Xeon® Processor E3-1275/E3-1225/E3-1268LV3 and 4th Gen Intel® Core™ Processors i5-4570TE, i3-4360, i3-4330, i3-4330TE, Intel® Pentium® Processor G3320TE and Intel® Celeron® Processor G1820TE.
- Supports 2 channel four DDR3 ECC Un-buffered 1333/1600 DIMMs, up to 32 GB
- Four network Mezzanine Cards(NMC) Slots for a wide range of GbE and 10GbE NMCs with or without bypass
- One PCIe8 and on PCIe4 full-height/half-length add-on card
- One 2.5" SATA HDD and SSD and one HS/FS mSATA socket
- C-Fast or CF Module support (optional)
- IPMI2.0 compliant Remote Management (optional)



Introduction

The FWA-3231 1U network appliance can scale from entry-level performance using Intel® Celeron® and Pentium® processors to the mid-range segment using Intel® Xeon® series processors, offering an outstanding price/performance ratio with each SKU. In addition to supporting the latest Haswell micro architecture enhancements for increased CPU performance, virtualization support and I/O throughput, the FWA-3231 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 DDR3 1333/1600 DIMMs for up to 32GB in total.

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 four Advantech Network Mezzanine Card (NMC) slots offer further flexibility for additional front-panel network ports.

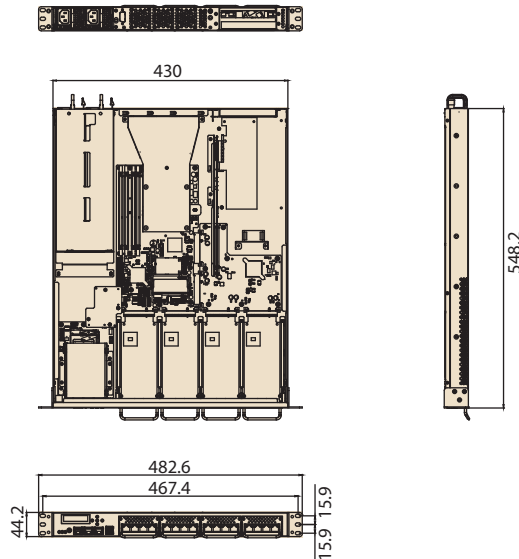
In the base configuration, the system comes with a single internal 2.5" SATA HDD/SSD. The management panel at the front provides one RJ45 Serial port, two Intel® I210-AT GbE Management ports, two USB Ports and an LCD Module, and LED Indicators for power/locate/alert for local system management, maintenance, and diagnostics.

Specifications





Processor System	CPU	Intel® Xeon® Processor E3-1275/E3-1225/E3-1268LV3 4th Gen Intel® Core™ Processors i5-4570TE, i3-4360, i3-4330, i3-4330TE, Intel® Pentium® Processor G3320TE and Intel® Celeron® Processor G1820TE(LGA1150)
	LLC	8M/6M/4M/3M/2M
Chipset	PCH	Intel® C226 PCH
	DIMM sockets	4
Memory	Technology	Dual channel DDR3 1333/1600 MHz ECC Un-buffered memory
	Capacity	Up to 32 GB
PCIe	Expansion Slots	1 x PCI-Express Gen.2 x4 FH/HL Expansion Slot and 1 x PCI-Express Gen.3 x8 FH/HL Expansion Slot
	LAN on Board	2 x Intel I210-AT 10/100/1000 Mbps Ethernet
Ethernet	NMC modules	4 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
	SATA	1 x 3.5" or 1 x 2.5" internal SATAHDD / SSD
Storage	Flash	1 x mSATA socket, support Full size/half size module CF or CFast module support (Optional)
	USB	2 x USB2.0 Type A connectors on the front 1 x USB3.0 pin header
Management Ports & Peripherals	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
	VGA	1 x VGA pin header
	TPM	Optional
Power Supply	Wattage	300W redundant AC PSUs (redundant DC PSUs on request) 300W Single AC PSU
	Input	AC 100 ~ 240 V @ 50 ~ 60 Hz, full range PMBus support on redundant PSU
Environment	Temperature	Operating: 0 ~ 40° C (32 ~ 104° F) Non-Operating: -40 ~ 60° C (-40 ~ 140° F)
	Humidity	5 ~ 85 % @ 40° C (104° F) 5 ~ 95 %
Physical	Dimensions (W x H x D)	430 x 44 x 550 mm, 16.6" x 1.7" x 21.6"
	Weight	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-3231-02A1E	Haswell WS, C226, 4 Latch NMCs, AC PSU(1+1)
FWA-3231-03A1E	Haswell WS, C226, 4 Latch NMCs, AC SINGLE PSU
FWA-3231-04A1E	Haswell WS, C226, 4 Latch NMCs, DC PSU(1+1)

Packing List

Part Number	Description
1700012272	SATA Data Cable 25 cm
1700017838	SATA Data Cable 30 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