

FWA-3270A/B

1U Rackmount Network Application Platform based on Intel® Xeon™ E3 series and 6th generation Core™ I7/I5/I3 Processor



Features

- Intel® Xeon® E3-1275 /E3-1225/E3-1268L V5 (FWA-3270A only) and 6th generation Core™ i7-6700/i7-6700TE/i5-6500/i5-6500TE/i3-6100/i3-6100TE, Intel® Pentium® Processor G4400/G4400TE, Intel® Celeron® G3900/G3900TE
- Support max 4 x 2133Mhz DDR4 ECC/UDIMMs, 32GB per channel, up to 64GB
- 2 GbE management ports
- 8x GbE LAN by Intel I210-AT with 3 segment LAN bypass
- Max 2 Network Mezzanine Card bays for PCIe gen.3 based port expansion with 1 x PCIe x8 full-height / half-length add-on card
- 2 x 2.5" SATA HDDs/SSDs and 1x mSATA Socket or 1 x M.2 SSD sockets
- IPMI2.0 compliant Remote Management (optional)



Introduction

The FWA-3270 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-1150 socket, including the Intel® Xeon® E3-1275/1225/1268Lv5, 6th generation Intel® Core™ I7-6700/I7-6700TE/I5-6500/I5-6500TE/I3-6100/I3-6100TE, the Pentium® G4400/G4400TE and the Celeron® G3900/G3900TE. Memory configurations can include 4 x DDR4 2133 DIMMs up to 64GB in total. In the base configuration, the system comes with two internal 2.5" SATA HDD bay and one mSATA socket or one M.2 SSD socket, 8 Intel I210 GbE controllers, and one PCIe x8/two PCIe x4 expansion slot. System features include an LCM, RJ45 console, and 2 USB ports. Additional I/O and processor offload capacity is provided by support for two network mezzanine card modules.

Featuring an optional server BMC in accordance with IPMI2.0, the FWA-3270 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.

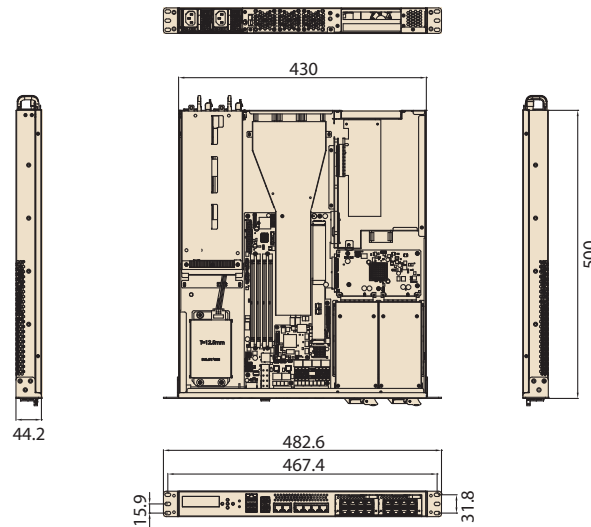
The system is FCC, CE, CB, UL, CCC and RoHS compliant.

Specifications









		FWA-3270A	FWA-3270B
Processor System	CPU	Intel Xeon E3-1275/ E3-1225/1268L V5, 6th gen Core I7-6700/ I7-6700TE/I5-6500/I5-6500TE/I3-6100/I3-6100TE, Pentium G4400/G4400TE, Celeron G3900/G3900TE processors	Intel 6th gen Core I7-6700/I7-6700TE/I5-6500/I5-6500TE/ I3-6100/I3-6100TE, Pentium G4400/G4400TE, Celeron G3900/ G3900TE processors
	L2 Cache	8 MB / 6 MB / 4MB / 3 MB / 2 MB	8 MB / 6 MB / 4MB / 3 MB / 2 MB
Chipset	PCH	Intel C236 PCH	Intel H110 PCH
Memory	Technology	Dual channel total 4 x DDR4 2133MHz ECC (Xeon and I3 only)/ Un-buffered memory	Dual channel total 2 x DDR4 2133 MHz Un-buffered memory
	Capacity	Up to 64 GB	Up to 32 GB
PCI-Express	Expansion Slot	2 x PCI-Express Gen.3 x4 FH/HL Expansion Slots (FWA-3270A Optional) Or 1 x PCI-Express Gen.3 x8 FH/HL Expansion Slots (FWA-3270A Default Configuration)	
Ethernet	LAN on board	8 x Intel I210AT 10/100/1000 Mbps Ethernet with optional 3 segment bypass	6 x Intel I210AT 10/100/1000 Mbps Ethernet with optional 2 segment bypass
	NMC	2 x NMC modules with PCIe x8 gen.3 interfaces Maximum 8 GbE ports or 2 x 10GE ports. Please refer to the "Related Products" section for a list of currently available NMCs	1 x NMC module PCIe x8 gen.2(default) interfaces
Mass Storage	SATA	1 x 3.5" or 2 x 2.5" SATA HDD / SSD	
	Compact	Flash 1 x MSATA Socket or 1 M.2 SSD Socket	
Management Ports & Peripherals	USB	2 x USB3.0 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	Watt	300 W redundant AC PSUs (DC on request)	250 W single AC power supply
	Input	100 V ~ 240 V @ 50 ~ 60 Hz, full range	
Environment	Operating Temperature	0 ~ 40° C (32 ~ 104° F)	Non-Operating -20 ~ 75° C (-4 ~ 167° F)
	Humidity	5 ~ 85% @ 40° C (104° F)	5 ~ 95%
	Dimensions	430 x 44 x 500 mm (16.6" x 1.7" x 19.3")	430 x 44 x 375 mm (16.6" x 1.7" x 14.7")
Physical Characteristics	Weight (N.W)	10 kg (22 lb)	

Dimensions

Unit: mm



Recommended NMC Module List

Part Number	NMC-0120	NMC-0121	NMC-0806	NMC-1008
				
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	8 x RJ45	8 x RJ45	8 x RJ45	2 x SFP+
Other	With LAN bypass	With LAN bypass option	With LAN bypass option	With LAN bypass
Part Number	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.

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
1700024019-01	HDMI Cable 20 cm(FWA-3270A)
1700024962-01	DVI Cable 20 cm(FWA-3270B)

Packing List

Part Number	Description
1700024783-01	SATA Data Cable 30cm
1700018950	RJ-45 Console Cable 220 cm

Ordering Information

Part Number	Description
FWA-3270A-00A1E	Skylake C236, PSU AC(1+1), 2NMC, Latch, HDMI
FWA-3270B-00A1E	Skylake H110, Single PSU, 1NMC, Latch, DVI