

# FWA-3260

## 1U Rackmount Network Application Platform with Intel® Xeon® Processor D Family

Preliminary



### Features

- Intel® Xeon® Processor D System On Chip up to 16 cores and 1.5MB last level cache per core
- 4 x DDR4 ECC UDIMMs/RDIMMs and RDIMMs, up to 2400MHz and up to 128GB
- 4 server class GbE ports implemented by an Intel i350 Ethernet Controller with advanced LAN bypass support
- 2 GbE management ports
- 2 x 10GE SFP+ ports
- 2 Network Mezzanine Card bays for PCIe gen.3 based port expansion with 1GbE and 10GbE and 40GbE ports
- 1 x PCIe x8 full-height / half-length add-on cards
- Two 2.5" SATA HDDs/SSDs and two M.2 SSD sockets
- IPMI2.0 compliant Remote Management (optional)



### Introduction

The FWA-3260 1U network appliance features Intel's® Xeon® Processor D System On Chip to meet the need for higher core count, larger and faster memory as well as increased IO performance without sacrificing cost efficiency in a compact footprint. With up to 16 Xeon class cores and 1.5MB last level cache per core tightly integrated with DDR4 memory controllers and a rich IO subsystem, the Xeon® D SoC performs extremely well in applications tailored for multicore designs. Besides supporting memory capacities up to 128GB, Xeon® D also brings enhanced reliability and availability features previously only available on high end Xeon® E5 series processors into a midrange appliance footprint. Two integrated 10GE controllers with 128TX/RX queues per port, support for SR-IOV and optimizations for network overlays such as VxLAN and NVGRE as well as high performance PCIe gen.3 interfaces complement the processor subsystem of the SoC.

With an optimized system design the FWA-3260 adds four server class copper ports based on the Intel i350-AM4 Ethernet controller, Advanced LAN bypass capabilities as well as flexible, scalable and high performance port expansion via two PCIe gen.3 Network Mezzanine bays. Support for a PCIe x8 gen.3 full height / half length card provides additional flexibility to integrate special purpose IO cards or QuickAssist™ offload adapters such as Advantech's PCIE-3215.

In the base configuration, the system comes with support for two 2.5" SATA HDDs/SSDs, two M.2 sockets, LCM, RJ45 console, two USB ports and two additional GbE management ports. While the FWA-3260A SKU is optimized for highest performance and system reliability supporting redundant, hot swap power supplies, the FWA-3260B is tailored for best cost in entry level applications.

Featuring an optional server BMC in accordance with IPMI2.0, the FWA-3260 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.

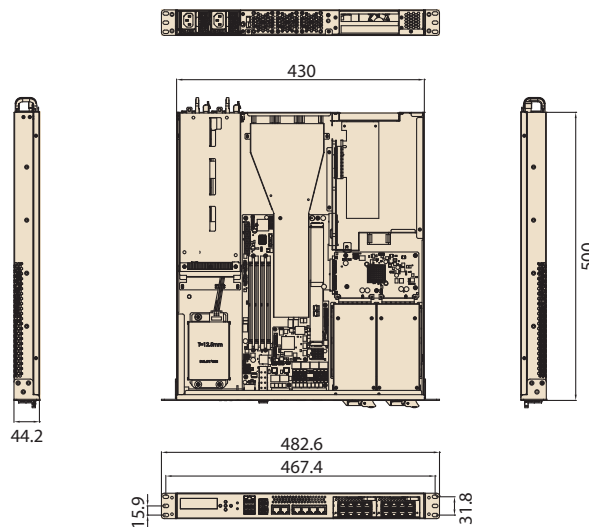
The system is FCC, CE, CB, UL, CCC and RoHS compliant.

### Specifications

		FWA-3260A	FWA-3260B
Processor System	CPU	Intel® Xeon D up to 16 cores	Intel® Xeon D up to 4 cores
	LLC Cache	1.5MB per core	1.5MB per core
Memory	DIMM sockets	4	
	Technology	Dual channel DDR4-2400MHz ECC	
	Capacity	64GB (UDIMM)/128GB (RDIMM)	
PCIe	Expansion Slot	1 x PCIe x8 riser card Supports full-height/half-length cards	Without PCIe riser card
	Ethernet	LAN on board	4 x Intel® I350-AM4 10/100/1000 Mbps Ethernet with optional 2 segment advanced bypass 2 x Intel® I210-AT 10/100/1000 Mbps Ethernet for Management 2 x 10GE SFP+ (integrated in Xeon® D)
Storage	NMC modules	2 x NMC modules with PCIe x8 gen.3 interfaces Maximum 8 GbE ports, 4 10GE ports or 2 40GE ports Please refer to the "Recommended NMC Module List" section for a list of currently available NMCs	
	SATA3.0	2 x 2.5" Internal HDD/SSD	
System management & Peripherals	Flash	2 x M.2 sockets (1x 2280 or 2x 2240)	
	USB	2 x USB3.0 ports in the front 1 x USB2.0 port on board	
	Serial	1 x RS232 Console port (RJ-45 connector)	
	LCD Module	16 x 2 graphic display, 5 buttons	
	IPMI	LOM Module (optional) with Aspeed AST1250 chip Supports IPMI 2.0, redundant BIOS and remote, failsafe BIOS update	Without LOM module
Power supply	TPM	Trust Platform Module (Optional)	
	Watt	300W redundant AC PSU (redundant DC PSUs on request)	250W non-redundant AC PSU
	Input	AC 100 ~ 240 V @ 50 ~ 60 Hz, full range PMBus support	AC 100 ~ 240 V @ 50 ~ 60 Hz, full range

## Dimensions

Unit: mm



## Specifications (Cont.)

Environment	Temperature Humidity	Operating	Non-operating
		0 ~ 40° C (32 ~ 104° F) 5 ~ 85 % @ 40° C (104° F)	-20 ~ 80° C (-4 ~ 167° F) 5 ~ 95 %
Physical	Dimensions	430 x 500 x 44 mm (W x L x H), 17" x 19.7" x 1.7"	
	Weight (N.W)	10 Kg (22lb)	

## Recommended NMC Module List

Part Number	NMC-0120	NMC-0121	NMC-0806	NMC-1008	NMC-4005	NMC-4006
Description	4-port GbE card	4-port GbE card	8-port GbE card	2-port 10 GbE card	4-port 10 GbE card	2-port 40 GbE card
LAN Controller	1 x Intel® I350-AM4	1 x Intel® I350-AM4	2 x Intel® I350-AM4	1 x Intel® 82599	1 x Intel® XL710	1 x Intel® XL710
Ports	4 x SFP	4 x RJ45	8 x RJ45	2 x SFP+	4 x SFP+	2 x QSFP
Other	With LAN bypass	With LAN bypass	With LAN bypass	With LAN bypass	Without LAN bypass	Without LAN bypass

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

## Related Product

Part Number	PCI-E-3215
Description	Dual/Single Intel® QuickAssist
LAN Controller	2 or 1 x Intel® DH8950/25 PCH
Ports	-
Other	active / passive heatsink

## 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

## Packing List

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

## Ordering Information

Part Number	Description
FWA-3260A-00E	Intel Xeon D-1528(6C), 6GbE + 2 10GE ports, red. AC PSU, 2 NMC bays
FWA-3260A-01E	Intel Xeon D-1548(8C), 6GbE + 2 10GE ports, red. AC PSU, 2 NMC bays
FWA-3260B-00E	Intel Xeon D-1508(2C), 6GbE + 2 10GE ports, single AC PSU, 2 NMC bays
FWA-3260B-01E	Intel Xeon D-1527(4C), 6GbE + 2 10GE ports, single AC PSU, 2 NMC bays