FWA-2320

Features

- Supports Intel® Atom™ C2000 Processors with integrated Intel® QuickAssist hardware acceleration
- Supports two DDR3/DDR3L Memory DIMMs up to 1600 MHz, depending on CPU SKU
- Six 10/100/1000 Mbps LAN ports with advanced bypass (optional)
- One internal 2.5"/3.5" SATA HDD

Introduction

The FWA-2320 is the latest addition to Advantech's portfolio of networking platforms based on the Intel® Atom™ processor C2000 family extending the scalability of the Intel® platform for communications infrastructure from high end ATCA based systems all the way down to this entry level 1U rackmount appliance. The FWA-2320 can support 2-core, 4-core and 8-core processor SKUs with or without QuickAssist hardware acceleration providing additional flexibility to Network Equipment Providers to choose a platform which meets their performance / price targets. In addition to supporting up to eight Atom™ cores based on the Silvermont architecture in 22nm technology yielding higher clock frequencies and significantly increased performance gains, the new System On Chip processor features tighter I/O integration and improved IO bandwidth.

On-chip functions include four server class GbE ports and crypto acceleration for symmetric keys, bulk security encryption/decryption and public key functions. The four Ethernet data ports support optional LAN bypass and are complemented by two PCIe based Gigabit Ethernet management ports. Advantech's advanced LAN bypass simplifies bypass control via a common user mode API across the full appliance product range. It is particularly easy to integrate with application software in environments with a single OS as well as multiple OS instances.

System features include an LCM, one RJ45 console and two USB ports as well as one internally mounted 3.5" HDD/SDD with SATA Gen3 support. A mSATA slot and a USB DOM socket provide options for adding SSDs. A PCIe x4 slot provides further expansion capabilities.
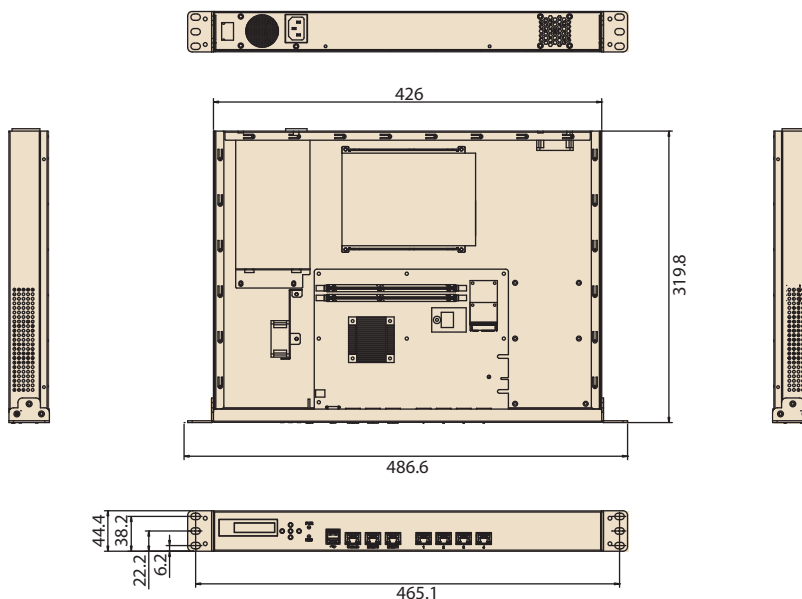
Please contact your Advantech representative to learn more about our full range portfolio based on the Intel® platform for communications infrastructure and Advantech's unique customization options including (but not limited to) branding, alternative power supplies and other system configuration options.

Specifications

		Operating	Non-Operating
Processor System	CPU	Intel® Atom™ C2000 processor	
	L2 Cache	1 MB /4 MB depending on CPU SKU	
Memory	Technology	One DDR3 channel, two DDR3 UDIMMs up to 1600 MT/s depending on CPU SKU	
	Capacity	Up to 16 GB	
PCI-Express	Expansion Slots	Internal PCIe x4 gold finger expansion (optional)	
Ethernet	LAN on Board	4 x GbE LAN ports (integrated in Atom™ C2000) with 2 segment advanced bypass support (optional) 2 x GbE management ports (Intel I210-AT based) (no bypass capability)	
Mass Storage	SATA	1 x 2.5"/3.5" SATA HDD or SSD	
	Others	Internal mSATA (1x) and USB DOM slot (1x)	
Management interfaces	USB	2 x USB ports	
	Serial	1 x RJ45 console port (RS232)	
	LCD Module	1 x graphic LCM module, 5 buttons (optional)	
Power Supply	Wattage	100 W	
	Input	100 V ~ 240 V @ 50 ~ 60 Hz, full range	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40° C (32 ~ 104° F)	-20 ~ 75° C (-4 ~ 167° F)
	Humidity	5 ~ 85% @ 40° C (104° F)	5 ~ 95%
Physical Characteristics	Dimensions (W x H x D)	426 x 44.4 x 319 mm	
	Weight (N.W)	4.5 kg (9.9 lb)	

Dimensions

Unit: mm

426

319.8

486.6

44.4
38.2
22.2
6.2

465.1

Ordering Information

Part Number	Description
FWA-2320-00E	C2358 (2C/ 1.7GHz) With 2Gbps QuickAssist 2 DIMM sockets up to 1333MHz 6 LAN ports (4 ports with 2 segment advanced bypass + 2 management ports) 1x Fixed 100W PSU
FWA-2320-01E	C2558 (4C/ 2.4GHz) With 5Gbps QuickAssist 2 DIMM sockets up to 1600MHz 6 LAN ports (4 ports with 2 segment advanced bypass + 2 management ports) 1x Fixed 100W PSU
FWA-2320-02E	C2758 (8C/ 2.4GHz) With 10Gbps QuickAssist 2 DIMM sockets up to 1600MHz 6 LAN ports (4 ports with 2 segment advanced bypass + 2 management ports) 1x Fixed 100W PSU

Packing List

Part Number	Description
1700018950	Cable RJ-45 to Console 9P 220 cm

Accessories

Part Number	Description
1702002600	3P Power Cable 180 cm, USA
1702002605	3P Power Cable 180 cm, Europe
1702031801	3P Power Cable 180 cm, UK
1700000237	3P Power Cable 180 cm, JP
98R2232019E	Accessory 2.5 HDD tray kit for FWA-2320