FWA-1320

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" SATA or SSD HDD

Introduction

The FWA-1320 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 desktop appliance. The FWA-1320 can support 2-core, 4-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.
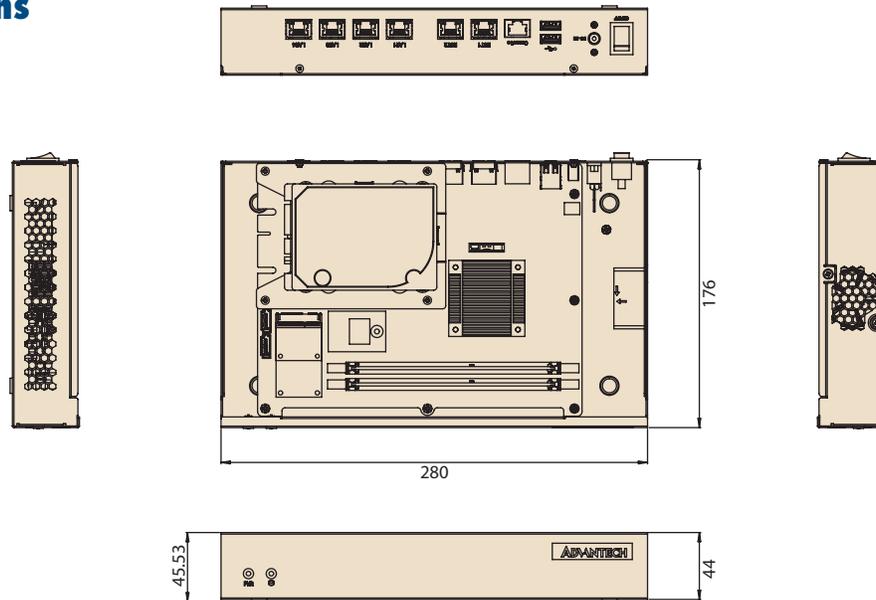
System features include one RJ45 console and two USB ports as well as one internally mounted 2.5" HDD/SDD with SATA Gen3 support. A mSATA slot and a USB DOM socket provide options for adding SSDs. A PCIe x4 slot provides further expansion capabilities. Please contact your Advantech representative to learn more about our full range portfolio based on the Intel® platform for communications infrastructure.

Specifications

		Operating	Non-Operating
Processor System	CPU	Intel® Atom™ C2000 processor	
	L2 Cache	2 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	
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" 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)	
Power Supply	Wattage	84W external adapter	
	Input	100 V ~ 240 V	
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)	280 x 44 x 176 mm	
	Weight (N.W)	2 kg (3.3 lb)	

Dimensions

Unit: mm

176

280

45.53

44

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Ordering Information

P/N	Description
FWA-1320-00E	C2358 (2C / 1.7GHz) with 2Gbps Quick assist 2 DIMM sockets, up to 1333 MHz 6 LAN ports (4 ports with 2 segment advanced bypass + 2 management ports)
FWA-1320-01E	C2558 (4C / 2.4GHz) with 5Gbps Quick assist 2 DIMM sockets, up to 1600 MHz 6 LAN ports (4 ports with 2 segment advanced bypass + 2 management ports)

Accessories

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

Packing List

Part Number	Description
1700018950	Cable RJ-45 to Console 9P 220 cm
96PSA-A84W12V1	ADAPTER 100-240V 84W 12V 7A W/PFC