

FWA-2012

Rackmount Platform for Network Application with Intel® Atom® C3000 Processor



Features

- Intel® Atom® C3000 System On Chip up to 16 cores Processor with QAT
- DDR4 2400 ECC memory up to 64GB
- DDPK supported LAN, 2 pairs of LAN Bypass
- Maximized storage options
- TPM 1.2 and 2.0 supported

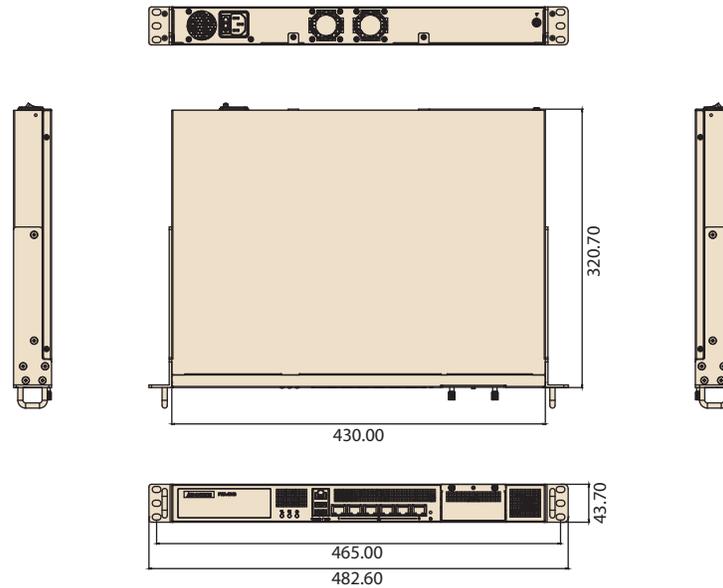


Specifications

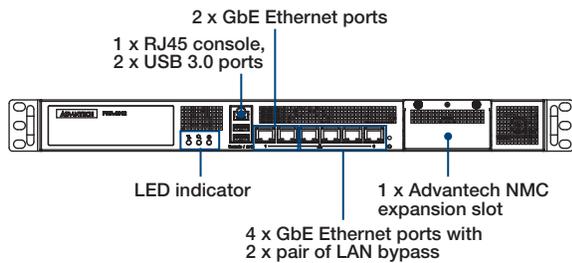
		FWA-2012-4CA1S	FWA-2012-8CA1S	FWA-2012-16A1S
Processor System	Processor	Intel® Atom™ C3000		
	Core Number	4 core	8 core	16 core
	Frequency	2.2GHz	2.2GHz	2.0GHZ
	L2 Cache	2MB/Core	2MB/Core	2MB/Core Pair
	Chipset	Intel® Atom™ C3558	Intel® Atom™ C3758	Intel® Atom™ C3958
	BIOS	AMI Efi 64Mbit		
Virtualization	VT-x, VT-d			
Memory	Technology	DDR4, 2133/2400MHz		
	Max. Capacity	64GB		
	Socket	2 x 288-pin DIMM		
	ECC Support	ECC		
Networking	Controller	1 x Marvell 88E1543 2 x Intel i210		
	1GbE	4 x 1GbE RJ45 via Marvell 1543 with 2 pairs LAN Bypass 2 x GbE RJ45 port via Intel i210		
	LAN bypass	Advanced	2 segment 1 x NMC	
Expansion	NMC	1 x NMC		
Storage	2.5" Bay/3.5" Bay	1 x Internal 2.5" HDD/SSD or 1 x Internal 3.5" HDD (SATA 3.0), 2nd 2.5" HDD/SSD is optional		
	M.2 (SSD)	2 x M.2 M-key slots for 2280 SATA SSD (SATA 3.0), 2nd M.2 is optional		
I/O	Console port	1		
	USB3.0	2		
	LED Indicator	Power/Status/Location LED		
	Reset button	Yes		
	Others	1 x AC Power Switch		
TPM	TPM 1.2 or 2.0 module (optional)			
LCD Module	16x2 graphic display, 5 buttons (optional)			
Power Supply	Power Type	FlexATX PSU		
	Watts	150 W		
	Input	100 V ~ 240 V		
	Connector	AC 3pin plug		
Environment	Operating Temperature (air flow 0.7 m/sec)	0 ~ 40 °C (32 ~ 104 °F)		
	Non-operating Temperature	-40 ~ 60 °C (-40 ~ 140 °F)		
	Vibration Resistance	with SATA HDD: 0.5 Grms, IEC 60068-2-64, 5-500Hz, 1hr/axis with SATA HDD: 10G, IEC-60068-2-27, half sine, 11ms duration		
	Shock Protection			
Cooling	2 x system Fans			
Mechanical	Construction	SGCC		
	Mounting	Rackmount kit		
	Dimensions (W x H x D)	430 x 44 x 320.7 mm (16.7" x 1.7" x 12.6")		
	Weight	6.6 Kg (14.5 lbs)		
OS Support	Linux (CentOS, Red Hat, Ubuntu)			
Advantech S/W Packages	QuickStart Linux Image (CentOS based reference BSP) including			
	<ul style="list-style-type: none"> ▪ afru ▪ msensors ▪ LCD4Linux ▪ Intel DDPK ▪ Advanced LBP utility Individual packages: <ul style="list-style-type: none"> ▪ Advanced LBP utility 			
IPMI	NA			
Certification	CB/UL/CE/FCC/CCC			

Dimensions

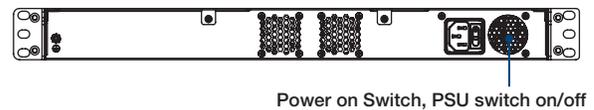
Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Ordering Information

Part No.	CPU	DDR4 slot	PCIe slot	NMC slot	USB 3.0	RJ45 Lan Port	MGM Port	Console Port	LCM	TPM 1.2	IPMI	PSU
FWA-2012-4CA1S	Intel® Atom C3558	2	x	1 (PCIe x4)	2	4	2	1	x	x	x	1 (150W AC)
FWA-2012-8CA1S	Intel® Atom C3758	2	x	1 (PCIe x8)	2	4	2	1	x	x	x	1 (150W AC)
FWA-2012-16A1S	Intel® Atom C3958	2	x	1 (PCIe x8)	2	4	2	1	x	x	x	1 (150W AC)

Packing List

Part Number	Description	Quantity
1700020691-01	Console cable D-SUB9P(F)/RJ45 220 cm	1
1960066407T000	Rack mount fixing ears	2
1960078925N004	Rackmount bracket right	1
1960078926N004	Rackmount bracket left	1
1931040820	Screws for rackmount	12
1930000313	3.5" HDD screw	6
1930002235	2.5" HDD/SSD screw	4
1700020513-21	SATA cable	1
1700026324-11	SATA power cable	1

Optional 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