

# 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 registered memory up to 64GB
- Optimized LAN Port Extension
- Maximized storage options
- IPMI 1.2
- Advanced Platform Reliability and Serviceability

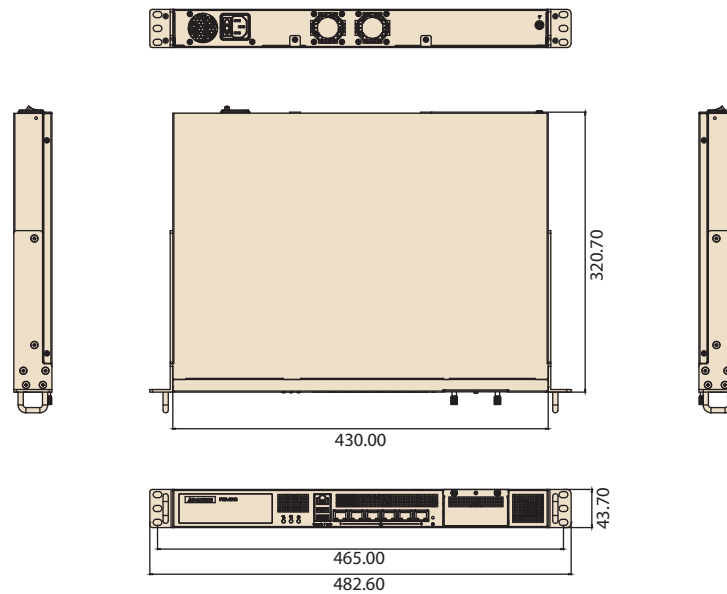


### Specifications

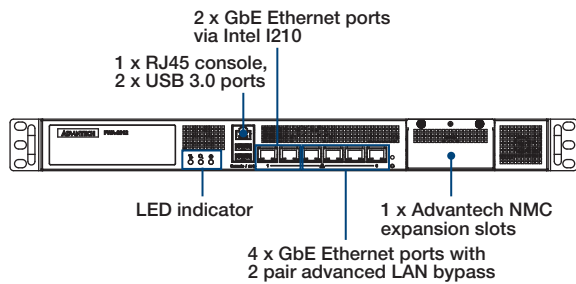
		FWA-2012-4CA1S	FWA-2012-8CA1S	FWA-2012-16A1S
Processor System	Processor	Intel® Atom™ C3000		
	Core Number	4 core	8 core	16 core
	Frequency	2.2GHz	2.2GHz	2.0GHz
	L2 Cache	2MB/Core	2MB/Core	2MB/Core Pair
	Chipset	Intel® Atom™ C3558	Intel® Atom™ C3758	Intel® Atom™ C3958
	BIOS	AMI Efii 64Mbit		
Virtualization		VT-x, VT-d		
Memory	Technology	DDR4, 2133/2400MHz		
	Max. Capacity	64GB		
	Socket	2 x 288-pin DIMM		
	ECC Support	ECC		
Networking	Controller	4 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	
		Legacy	-	
Expansion	PCIe x 4	-	1 x PCIe-2002 (optional)	
	NMC	1 x NMC		
Storage	2.5" HDD/SSD	1 x 2.5" HDD/SSD (optional)		
	3.5" HDD	1 x 3.5" HDD/SSD		
	m.2 SSD	2 x M.2 (2280) (2nd M.2 daughter board: 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	1.2		
LCD Module		16x2 graphic display, 5 buttons (optional)		
Power	Power Type	AC		
	Watts	150 W		
	Input	100 V ~ 240 V		
	Connector	AC 2pin plug		
	Power Adaptor	AC PSU		
Environment	Operating Temperature (air flow 0.7 m/sec)	0 ~ 40 °C (32 ~ 104 °F)		
	Non-operating Temperature	-40 ~ 60° C (-40 ~ 140° F) 5 ~ 95%		
	Vibration Resistance	with SATA HDD: 0.5 Grms, IEC 60068-2-64, 5-500Hz, 1hr/axis		
Cooling	Shock Protection	with SATA HDD: 10G, IEC-60068-2-27, half sine, 11ms duration		
		2 x system Fans		
Mechanical	Construction	Iron		
	Mounting	1U Rackmount		
	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"> <li>▪ afwu</li> <li>▪ ipmitool</li> <li>▪ lmsensors</li> <li>▪ LCD4Linux</li> <li>▪ Intel DPDK</li> <li>▪ Advanced LBP utility</li> </ul> Individual packages: <ul style="list-style-type: none"> <li>▪ Advanced LBP utility</li> </ul>		
IPMI		Low cost Carrier Grade BMC, IPMI v2.0 compliant (Advantech IPMI Core) (optional)		
Certification		CB/UL/CE/FCC/CCC		

## Dimensions

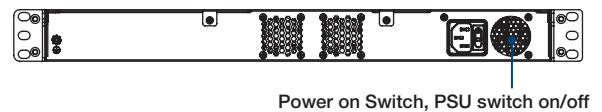
Unit: mm



### 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	PSU
FWA-2012-4CA1S	Intel® Xeon® Atom C3558	2	x	1	2	4	2	1	x	150W AC PSU
FWA-2012-8CA1S	Intel® Xeon® Atom C3758	2	x	1	2	4	2	1	x	150W AC PSU
FWA-2012-16A1S	Intel® Xeonv Atom C3958	2	x	1	2	4	2	1	x	150W AC PSU

## Packing List

Part Number	Description
1700020691-01	Console cable D-SUB9P(F)/RJ45 220 cm

## 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