

FWA-3034

1U Network Appliance with 12th/13th Gen Intel® Core Processors for Network Security and Management

Preliminary



Features

- Processor hybrid design combining Performance-cores with Efficient-cores supporting up to 24 cores/32 threads for outstanding multi threaded performance
- 1GbE/2.5GbE/10GbE multi Ethernet interface
- Expandable via Advantech Network Mezzanine Card (NMC) with up to 100GbE bandwidth for additional demand of Ethernet ports
- 4G and WiFi 6 support for wireless network (5G by project base)
- Advantech IPMI 2.0 platform management with Redfish option with supported features such as redundant firmwares, automatic rollback, remote upgrade, and remote configuration

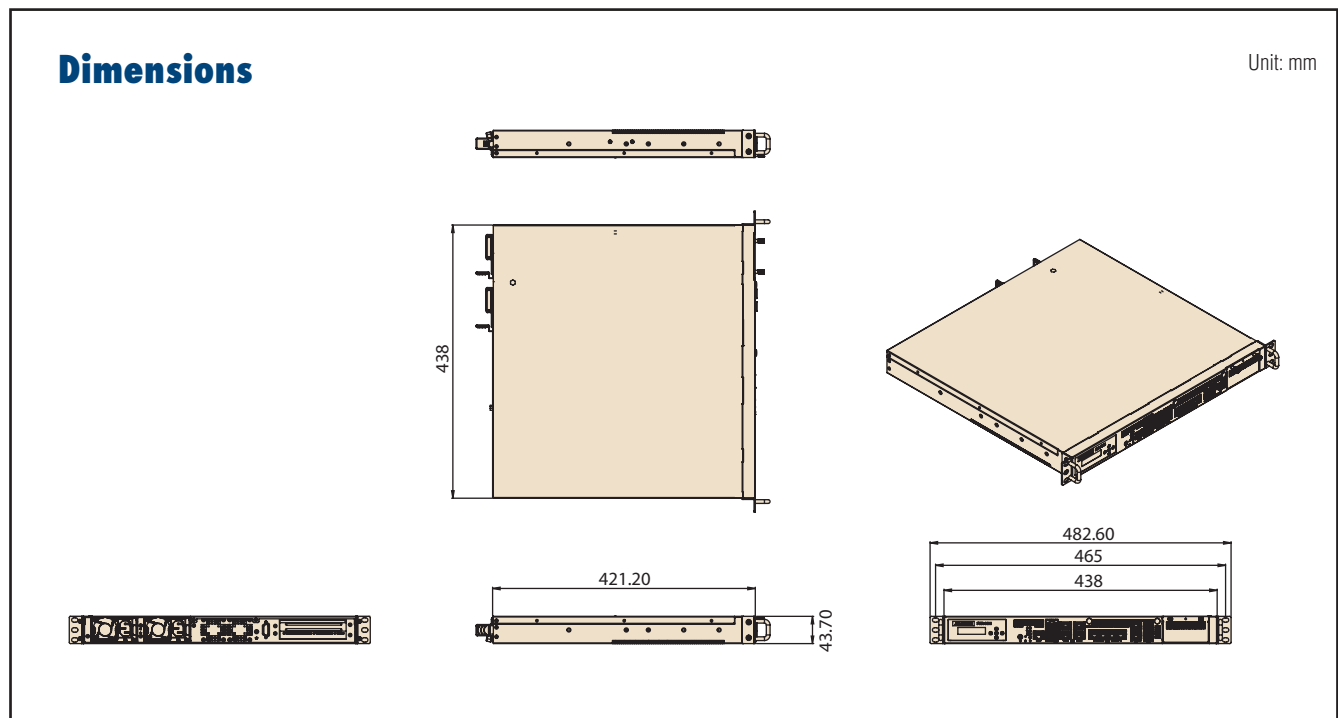
Specifications

System P/N		FWA-3034R-00A1R	FWA-3034H-00A1S	
Form Factor		1U		
Processor System	Processor	12 th /13 th Generation Intel® Core™ processors		
	Core Count	24		
	Base Frequency	3.40 GHz (5.0 GHz Turbo frequency)		
	Chipset	R680E	H610E	
	BIOS	AMI UEFI		
Virtualization		Intel® VT-x, VT-d, SR-IOV		
Memory	Technology	DDR5		
	Max. Capacity	64 GB (32 GB per slot)		
	Socket	2 x 288-pin DIMM		
	ECC Support	ECC/Non-ECC UDIMM	Non-ECC UDIMM	
Networking	Controller	2 x Intel i210-IS 8 x Intel i226-LM 1 x Intel X710-BM2	8 x Intel i226-LM	
	1GbE	2 x 1GbE SFP (2 x 1GbE RJ45 by project base)	N/A	
	2.5GbE	8 x 2.5GbE RJ45		
	10GbE	2 x 10GbE SFP+	N/A	
	LAN Bypass	Two pair of LAN bypass		
Expansion Slot	PCIe x8	1 (Gen 4, FH/HL)	N/A	
	NMC	1 (100G via single slot)		
	M.2 (Except SSD)	1 x M.2 B-key 3052/3042 for 4G module (5G by project base) or E-key 2230 for WiFi module	N/A	
	SIM Socket	1	N/A	
IPMI		IPMI 2.0 and Redfish compliant 1x dedicated 1GbE LAN for IPMI port	N/A	
Storage	2.5" Bay	2 x SATA HDD/SATA SSD		
	M.2 (SSD)	1 x 2280 M.2 M-key slot for SATA SSD or PCIe x4 Gen4 NVMe SSD	N/A	
I/O	Console	1 x RJ45 type console		
	USB	2 x USB 3.2 Gen 2x1 ports		
	LED Indicator	1 x SW-defined LED (Amber/Green)		
		1 x Alert LED by IPMI (Amber)		
		1 x ID LED by IPMI (Blue)		
		1 x Power (Green)		
	Display	1 x VGA port		
Button	1 x Power button			
	1 x SW-defined button			
Others	1 x RJ45 type console			
TPM		TPM 2.0 module		
LCD Module		21 columns x 4 lines text display		

Specifications (Cont.)

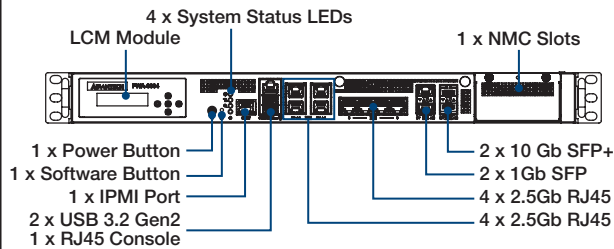
Power Supply	Power Type	AC Redundant	AC Single
	Watts	300 W	250 W
	Input	100-240 V	
	Connector	Power card edge 50P/2.54 mm	ATX 24P/4.2 mm, 4P/4.2 mm, 5P SATA (Cabled)
Environment	Operating Temperature	0 ~ 40 °C (32 ~ 104 °F)	
	Non-operating Temperature	-40 ~ 70 °C (-40 ~ 158 °F), 60 °C@95% Non-Condensing Humidity	
	Vibration Resistance (Operation)	5-500 Hz, 0.3 Grms, 3 axes, 1 hr/per axis	
	Shock Protection (Operation)	10 G, 11 ms	
Cooling		3 x System fans with smart fan feature	2 x System fans with smart fan feature
Mechanical	Construction	SGCC	
	Mounting	Rackmount	
	Dimensions (W x H x D)	438 x 44 x 420 mm (17.2" x 1.7" x 16.5")	
	Weight	8.2 kg (18.1 lb)	
OS Support		Linux (Red Hat, Ubuntu)	
Advantech S/W Packages		ALBPCU APOECU ipmitool Server iManager (Linux base) - Health Guard - Diagnostic Framework - Network device identifier (NDI)	
Certification	EMC/Safety	CE, FCC, CB, UL, CCC	

Note:
 The sequence of installing on FWA-3034R-00A1R: Plug in NMC card -> Raiser card.
 Please do read and follow the instruction with the user manual when you purchase any PCIe card and NMC card.

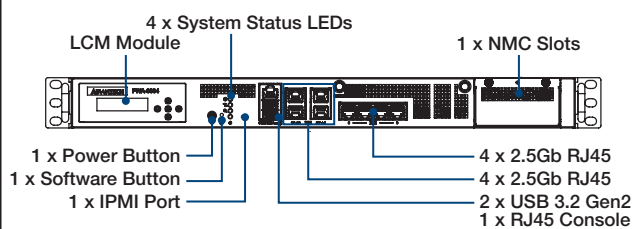


Front Panel External I/O Mechanical Layout/Drawing

FWA-3034R-00A1R

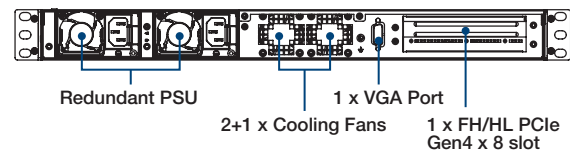


FWA-3034H-00A1S

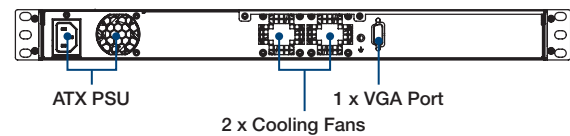


Rear Panel External I/O Mechanical Layout/Drawing

FWA-3034R-00A1R



FWA-3034H-00A1S



Ordering Information

Part Number	Processor	DDR5	PCH	QAT	NMC Slot	PCIe Slot	Storage Bay	USB 3.0	IPMI Port	Console Port	LAN Port			System Fan	PSU
											2.5G RJ45	1G SFP	10G SFP+		
FWA-3034R-00A1R	Single socket for 12 th /13 th Gen Intel [®] Core™ processor	2	R680E	N/A	1	1	2	2	1	1	8	2	2	3	2
FWA-3034H-00A1S	Single socket for 12 th /13 th Gen Intel [®] Core™ processor	2	H610E	N/A	1	N/A	2	2	N/A	1	8	0	0	2	1

Packing List

Part Number	Description
1700020691-01	M CABLE D-SUB 9P(F)/RJ45 220cm

Optional 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
968AE00073	22" Rail Kit for 438mm chassis (TL:381mm)
FWA-3050-800WPSU	800W DC Power kit
1700027334-01	USB for RJ45 console cable, 190cm