

# FWA-2013

## 1U Rackmount Network Appliance with Intel Atom® P5300 Processor for uCPE/SD-WAN and NGFW



### Features

- 1U form-factor for mainstream SMB (Small Medium Business) office deployment
- Powered by Intel Atom® P5000 processor technology, scalable from 16-core then up to 24-core environment for multi-core NFVi network application
- Multiple Ethernet interface 10GbE/2.5GbE/1GbE
- Upgradable with Advantech Network Mezzanine Modules for additional network interface, PoE or 5G/4G LTE wireless connectivity
- Remote system management via Advantech IPMI with Redfish support including remote FW upgrade and system FW back-up
- Option for Redundant PSU support

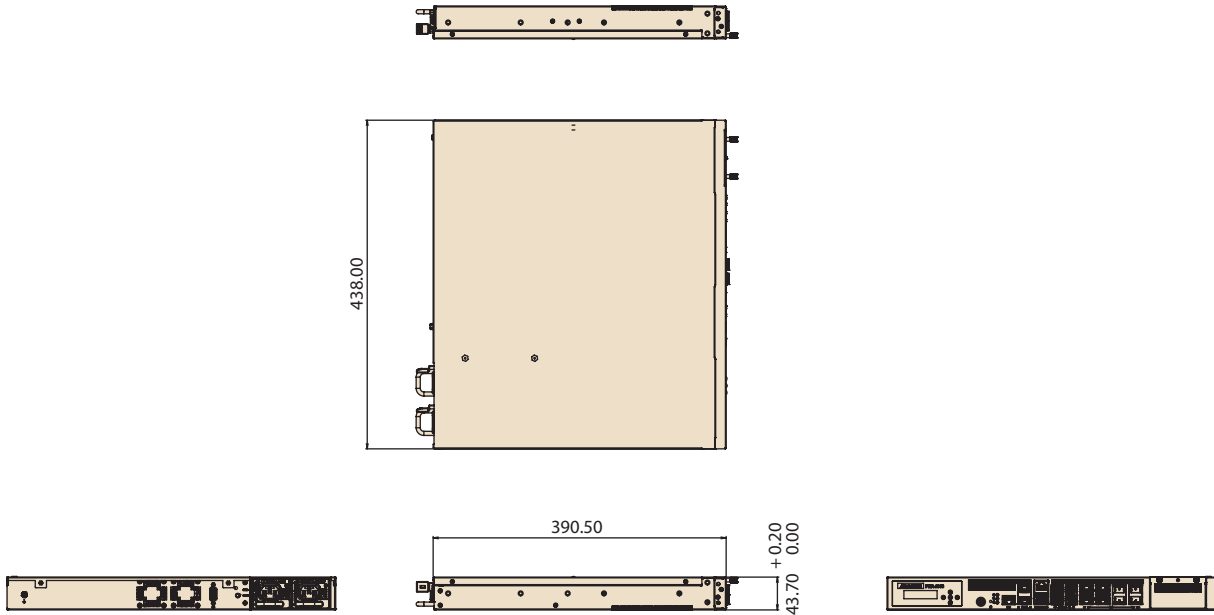


### Specifications

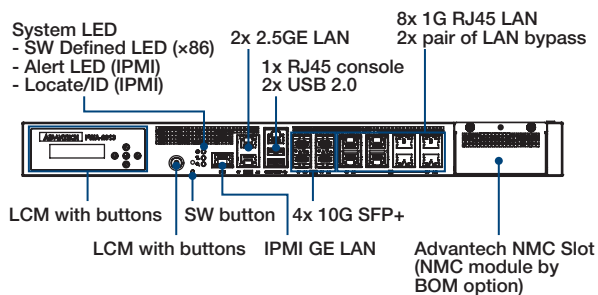
System P/N		FWA-2013-16A1S	FWA-2013-24A1R	
Form Factor		1U		
Processor System	Processor	Intel Atom® Processor P5342	Intel Atom® Processor P5362	
	Core Count	16	24	
	Base Frequency	2.2 GHz		
	BIOS	AMI UEFI		
Virtualization		Intel® VT-x, Intel® VT-d, SR-IOV, VMDQ		
Memory	Technology	DDR4		
	Max. Capacity	64 GB		
	Socket	2 x 288-pin DIMM		
	ECC Support	UDIMM, ECC RDIMM		
Networking	Controller	2 x Intel i226-LM 1 x Intel i350-AM4 1x SoC Integrated MAC and Marvell 88E1543PHY		
	1GbE	8 x 1GbE RJ45		
	2.5GbE	2 x 2.5GbE RJ45		
	10GbE	4 x 10GbE SFP+		
	LAN Bypass	Two pair of LAN bypass (Optional)		
Expansion Slot	NMC	1 x PCIe Gen3 x8		
	M.2 (Except SSD)	1 x M.2 E-key for WiFi module (Optional)		
IPMI		IPMI 2.0 and Redfish compliant		
Storage	2.5" Bay/3.5" Bay	1 x Internal 2.5" HDD/SSD (SATA 3.0) or 1 x Internal 3.5" HDD (SATA 3.0)		
	M.2 (SSD)	2 x M.2 M-key slots for 2280 SATA SSD (SATA 3.0)		
	eMMC	Up to 64 GB eMMC (Optional)		
I/O	Console	1 x RJ45 type console		
	USB	2 x USB 2.0 ports		
	LED Indicator		1 x Power LED	
			1 x Software-defined LED	
			1 x Alert LED	
			1 x Locate LED	
	Video	1 x VGA port		
Button	1 x Power button, 1 x Software-defined button			
Others	1 x RJ45 type console			
TPM		TPM 2.0 module (Optional)		
LCD Module		16 x 2 graphic display, 5 buttons (Optional)		
Power Supply	Power Type	FlexATX PSU (Optional: AC Redundant Slim PSU)		
	Watts	250 W (Optional: 300W Redundant PSU)		
	Input	100-240 V 50-60 Hz		
	Connector	AC 3pin plug		
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		2 x System fans with smart fan feature		
Mechanical	Construction	SGCC		
	Mounting	Rackmount kit		
	Dimensions (W x H x D)	438 x 43.7 x 390.5 mm (17.2" x 1.7" x 15.3")		
	Weight	5kg (11 lb)		
OS Support		Linux OS, Only UEFI FW and UEFI aware Linux OS		
Advantech S/W Packages		<ol style="list-style-type: none"> <li>1. ALBPCU</li> <li>2. APOECU</li> <li>3. ipmitool</li> <li>4. Server iManager (Linux base) <ul style="list-style-type: none"> <li>-Health Guard</li> <li>-Summary</li> <li>-network device identifier (apdi)</li> </ul> </li> <li>5. Quick Start Linux Image</li> </ol>		
Certification	EMC/Safety	CE, FCC, CB, UL, CCC		

## Dimensions

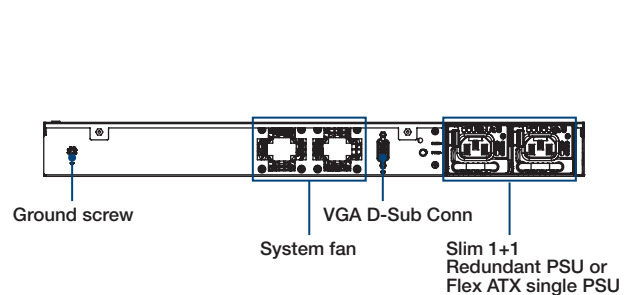
Unit: mm



### Front Panel External I/O Mechanical Layout/Drawing



### Rear Panel External I/O Mechanical Layout/Drawing



## Ordering Information

Part Number	Processor	DDR4	QAT	NMC Slot	Storage Bay	USB 2.0	IPMI Port	Console Port	LAN Port			M.2 2280 SSD slot	VGA	System fan	eMMC*	POE*	PSU
									1G RJ45	2.5G RJ45	10G SFP+						
FWA-2013-16A1S	P5342	2	100G	1	1	2	1	1	8	2	4	2	1	2	Optional	Optional	1
FWA-2013-24A1R	P5362	2	100G	1	1	2	1	1	8	2	4	2	1	2	Optional	Optional	2

## 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
1700027334-01	USB for RJ45 console cable, 190cm
PCA-TPMSPI-00A1	TPM 2.0 Module, SPI
968DE00061	Slide rail