

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

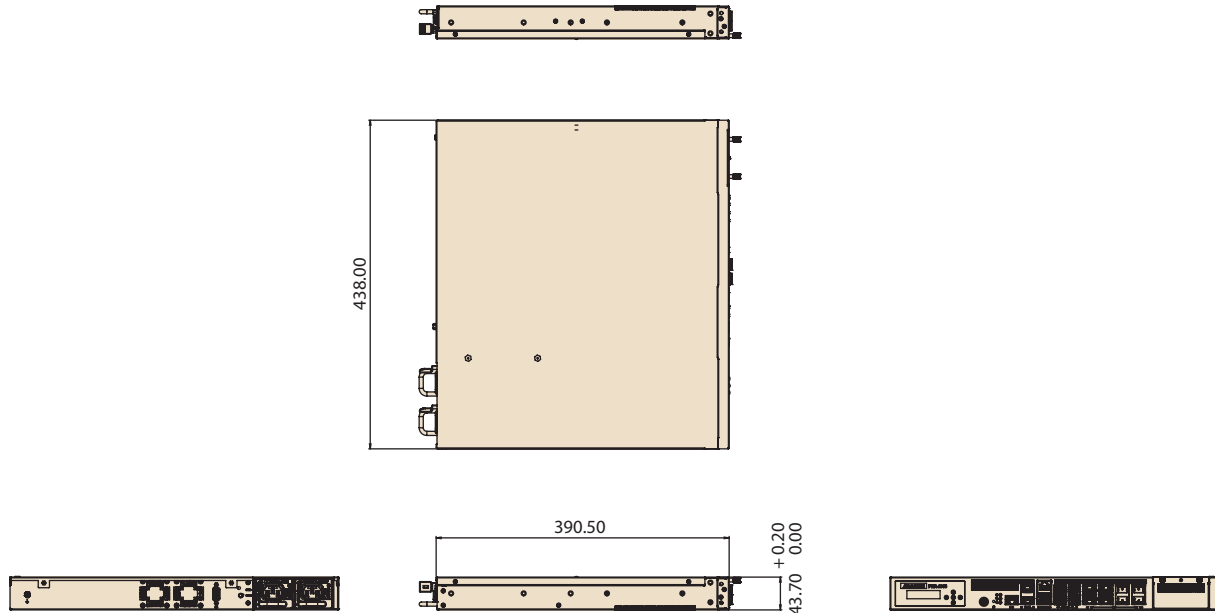


Specifications

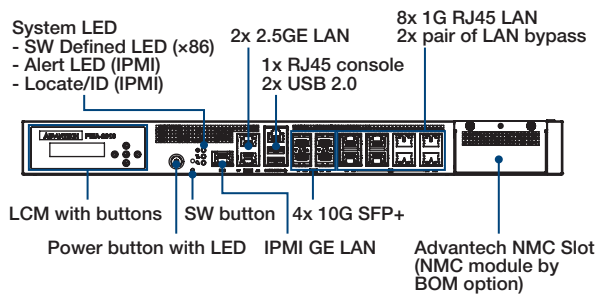
System P/N		FWA-2013-16A1S	FWA-2013-24A1R
Form Factor		1U	
Processor System	Processor	Intel Atom® Processor P5342	Intel Atom® Processor P5362
	Core Count	16	24
	Base Frequency	2.2 GHz	
	BIOS	AMI UEFI	
Virtualization		Intel® VT-x, Intel® VT-d, SR-IOV, VMDQ	
Memory	Technology	DDR4	
	Max. Capacity	64 GB	
	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	
TPM	Button	1 x Power button, 1 x Software-defined button	
	Others	1 x RJ45 type console	
LCD Module		TPM 2.0 module (Optional)	
Power Supply	Power Type	16 x 2 graphic display, 5 buttons (Optional)	
	Watts	FlexATX PSU (Optional: AC Redundant Slim PSU)	
	Input	250 W (Optional: 300W Redundant PSU)	
	Connector	100-240 V 50-60 Hz	
Environment	Operating Temperature	AC 3pin plug	
	Non-operating Temperature	0~40 °C (32~104 °F)	
	Vibration Resistance (Operation)	-40 ~ 70 °C (-40 ~ 158 °F), 60 °C@95% non-condensing humidity	
	Shock Protection (Operation)	5-500 Hz, 0.3 Grms, 3 axes, 1 hr/per axis	
Cooling		10 G, 11 ms	
Mechanical	Construction	2 x System fans with smart fan feature	
	Mounting	SGCC	
	Dimensions (W x H x D)	Rackmount kit	
	Weight	438 x 43.7 x 390.5 mm (17.2" x 1.7" x 15.3")	
OS Support		5kg (11 lb)	
Advantech S/W Packages		Linux OS, Only UEFI FW and UEFI aware Linux OS	
		1. ALBPCU	
		2. APOECU	
		3. ipmitool	
		4. Server iManager (Linux base)	
Certification	EMC/Safety	-Health Guard	
		-Summary	
		-network device identifier (apdi)	
		5. Quick Start Linux Image	
		CE, FCC, CB, UL, CCC	

Dimensions

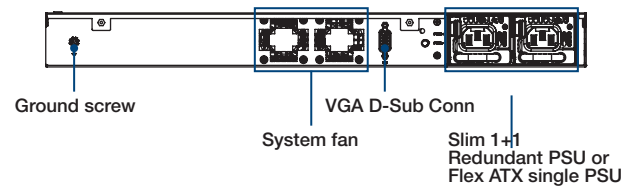
Unit: mm



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	Quantity
1700020691-01	Console cable D-SUB 9P(F)/RJ45 220cm	1
1960110568N001	Rackmount bracket right	1
1960110566N001	Rackmount bracket left	1
1960086225T004Q	Rack fixing ears when using slide-rail	2
1930007195-01	Screws for rackmount and ears	18
1930000313	3.5" HDD screws	6
1930002235	2.5" HDD/SSD screw	4
1930007793	M.2 SSD and TPM M3 screw	4
1990001690	Cable tie for HDD installation	1
1700034038-01	SATA power cable	1
1700020513-41	SATA cable	1

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