

FWA-1013

Universal Network Appliance with Intel Atom® P5300/C5300 Processor for uCPE/SD-WAN and NGFW



Features

- Compact size and scalable performance for mainstream small and medium branch deployment
- Powered by Intel Atom® P5300/C5300 processor technology, scalable from 4-core, 8-core, 12-core then up to 20-core environment for multi-core NFV 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 dual power adapter for power failover support



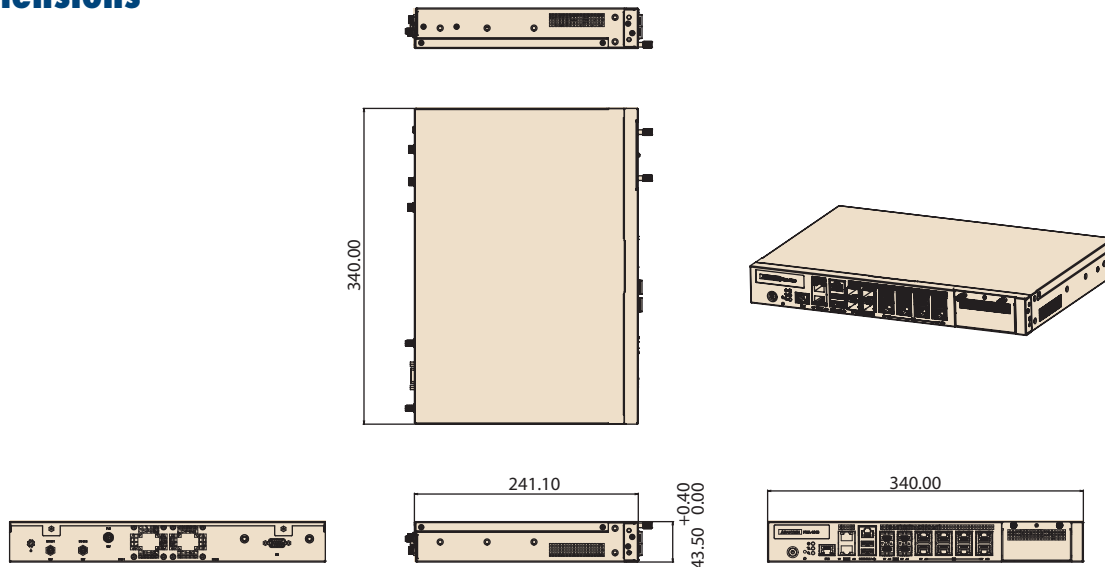
Specifications

Form Factor	Tabletop				
Processor System	Processor	Intel Atom® Processor C5315	Intel Atom® Processor C5325	Intel Atom® Processor P5332	Intel Atom® Processor P5352
	Core Count	4	8	12	20
	Base Frequency	2.4 GHz	2.4 GHz	2.2 GHz	2.2 GHz
	Chipset	N/A			
	BIOS	AMI UEFI			
Virtualization	Intel® VT-x, VT-d, SR-IOV, VMDQ				
Memory	Technology	DDR4			
	Max. Capacity	128 GB (64GB per slot)			
	Socket	2 x 288-pin DIMM			
	Support Type	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 pairs of Advanced LAN bypass (Optional)			
Expansion Slot	NMC	1			
	M.2 (Except SSD)	1 x M.2 E-key for WiFi module (Optional)			
IPMI	IPMI 2.0 and Redfish compliant 1 x dedicated 1GbE LAN for IPMI port				
Storage	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 SW-defined LED (Amber/Green) 1 x Alert LED by IPMI (Amber) 1 x Locate LED by IPMI (Blue)			
	Video	1 x VGA port			
	Button	1 x Power button with LED indication (Red) 1 x SW-defined button			
	Others	1 x RJ45 type console			
	TPM	Support by TPM 2.0 module (Optional)			
Power Supply	Power Type	External power adapter			
	Watts	150 W			
	Input	100-240 V ~ 2A 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	SECC			
	Mounting	Rackmount kit (Optional)			
	Dimensions (W x H x D)	339.6 x 43.7 x 241.1 mm (13.3" x 1.7" x 9.5")			
	Weight	4.5Kg (9.9lb) G.W.			
OS Support	Linux OS Only UEFI FW and UEFI aware Linux OS				
Advantech S/W Packages	<ol style="list-style-type: none"> 1. ALBPCU 2. APOECU 3. ipmitool 4. Server iManager (Linux base) <ul style="list-style-type: none"> -Health Guard -Summary -network device identifier (apdi) 5. Quick Start Linux Image 				
Certification	EMC/Safety	CE, FCC, CB, UL			

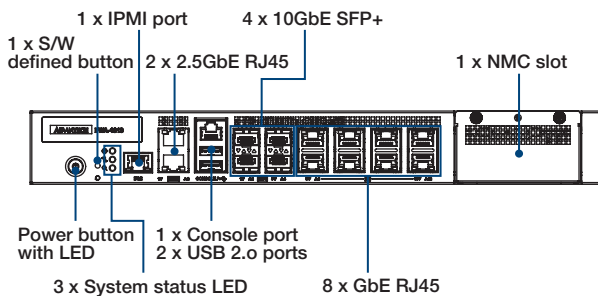
eMMC design is reserved but not included; available by project support
PoE+ design is reserved but not included; available by project support

Dimensions

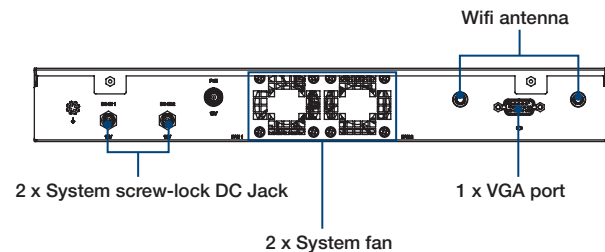
Unit: mm



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	USB2.0	IPMI Port	Console Port	LAN Port		M.2 2280 SSD slot	VGA	System fan	eMMC*	POE*	DC input
								1G RJ45	10G SFP+						
FWA-1013-4CA1S	C5315	2	10G	1*	2	1	1	8	4	2	1	2	Optional	Optional	150W
FWA-1013-8CA1S	C5325	2	20G	1	2	1	1	8	4	2	1	2	Optional	Optional	150W
FWA-1013-12A1S	P5332	2	50G	1	2	1	1	8	4	2	1	2	Optional	Optional	150W
FWA-1013-20A1S	P5352	2	100G	1	2	1	1	8	4	2	1	2	Optional	Optional	150W

* FWA-1013-4CA1S supporting Networking NMC type is as: NMC-0108, NMC-0121, NMC-0120, NMC-1009, NMC-1010

Packing List

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

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
FWA-1013-RMK	Rackmount Kit for 1 PSU support
FWA-1013-RMK2	Rackmount Kit for 2 PSU support
FWA-1013-150WPSU	150W power adapter
1700027334-01	USB for RJ45 console cable, 190cm
PCA-TPMSPI-00A1	TPM 2.0 Module, SPI