

FWA-3050

Remote Manageable 1U Network Appliance for uCPE/SD-WAN and NGFW base on Intel® Xeon D-2100 Series Processor



Features

- Powered by single Intel® Xeon D-2100 series processor up to 16C/32T with optional Intel® QAT and DPDK to boost performance
- Short-depth chassis design with optional tool-less slide rail or 2post mounting kit fits in any service provider or enterprise edge
- Upgradable with interface for Advance-LTE/5G, PoE or 1G/10G/25G/40GbE ports expansion cards
- Advantech inhouse design IP for out-of-band management or diagnostics software
- Validated by Intel® Select Solutions for uCPE and leading NFVi software solution

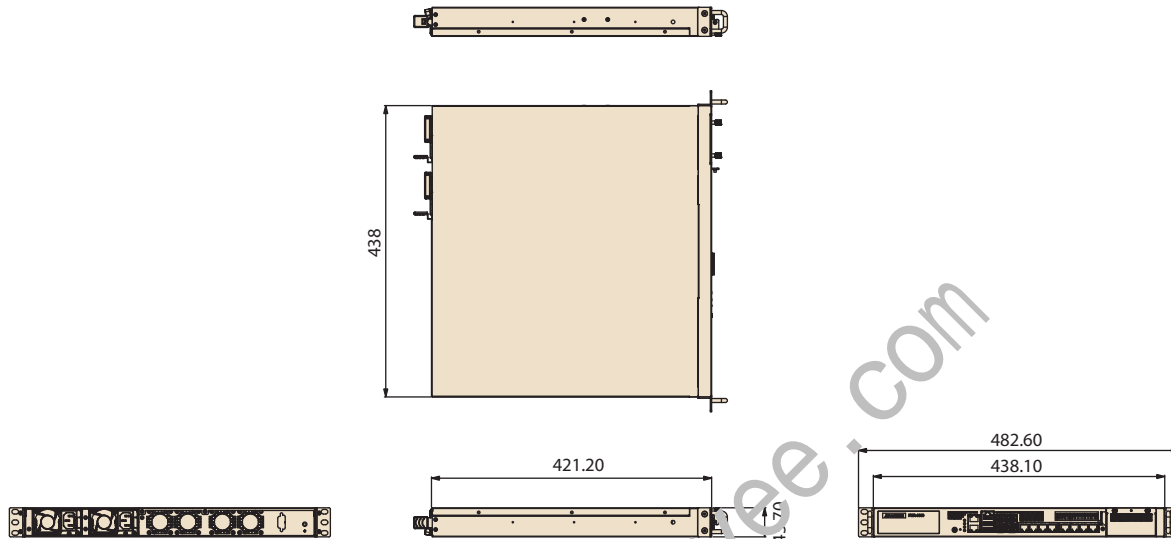


Specifications

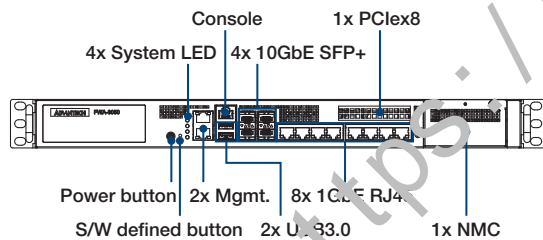
System P/N	FWA-3050-8CA1R	FWA-3050-16A1R	FWA-3050-16A1R
Form Factor	1U Rackmount		
Processor System	Processor	Intel® Xeon D-2145NT	Intel® Xeon D-2177NT
	Core Count	8C/16T	14C/28T
	Frequency	1.9GHz	1.9GHz
	L2 Cache	11MB	19MB
	BIOS	AMI Efi 64Mbit	22MB
Virtualization	VT-x, VT-d, EPT		
Memory	Technology	DDR4, Up to 2666MHz	
	Max.Capacity	256GB RDIMM/512GB LRDIMM	
	Socket	4 x 288-pin RDIMM	
Networking	ECC Support	Yes	
	Controller	1 x Intel X722, 2 x Intel i350, 2 x Intel i210	
	1GbE	4 x 10/100/1000 Mbps RJ45 via Intel i350-AM4, 4 x 10/100/1000 Mbps RJ45 via Intel i350-AM4 (Option: Advanced LAN bypass), 2 x 10/100/1000Mbps RJ45 via Intel i210-AT for management	
	10GbE	4 x 10GbE SFP+ via Intel X722	
	LAN bypass	None (Option: 2-segment/4 x ports Advanced LAN bypass)	
Expansion	PCIe	1 x PCIe x8 (Low-profile)	
	NMC	1 (Option: Field-replaceable NMC-E02 by project inquiry)	1 (Available for field-replaceable NMC-E02)
Storage	2.5" HDD/SSD	2 (Internal)	
	M.2 SSD/NVMe	2 x M.2 2280 SSD/NVMe	
I/O	Console port	1	
	USB3.0	2	
	LED Indicator	1 x Power LED, 1 x Alert LED, 1 x Locate LED, 1 x Software-defined LED	
	Others	1 x Power button, 1 x Software-defined button	
TPM	None (Option: Infineon TPM1.2/2.0 module)		
LCD Module	None (Option: 21 columns x 4 lines text display)		
Power	Power Type	Redundant 1+1 AC	
	Watts	300W	
	Input	100V ~ 240V	
Environment	Connector	CRPS (Option: 800W DC power supply by project support)	
	Operating Temperature (air flow 0.7 m/sec)	0 ~ 40 °C (32 ~ 104 °F)	
	Non-operating Temperature	-20 ~ 70 °C (-4 ~ 158 °F) and 40 °C @ 95% RH Non-Condensing	
	Vibration Resistance	With SATA HDD: 0.5 Grms, IEC 60068-2-64, 5-500Hz, 1hr/axis	
	Shock Protection	With SATA HDD: 10G, 11ms, IEC-60068-2-27, X,Y,X-X,-Y-Z axis, 3times per axis	
Cooling	Fixed 2 x system FANS	Fixed 4 x system FANS	
	(Option: Hot-swappable redundant system FANS)		
Mechanical	Construction	Steel	
	Mounting	1U Rackmount	
	Dimensions (W x H x D)	438 x 44 x 420 mm (17.2" x 1.7" x 16.5")	
	Weight	8.23Kg (18.14lb)	
OS Support	Linux (CentOS, Fedora, Red Hat, Ubuntu)		
Advantech S/W Packages	ALBPCU APOECU ipmitool Server iManager (Linux Base) -Health Guard -Diagnostic Framework -Network device identifier (NDI)		
IPMI	IPMI v2.0 compliant, with web interface, iKVM on request (Advantech IPMI Core)		
Certification	UL/CB 60950-1/62368-1(Safety), FCC Part 15 Class A(EMC), EN 55032/55024/55035 Class A(EMC), CCC(China), KCC(Korea), VCCI(Japan), RCM(Australia/New Zealand), WEEE, RoHS, EN 300386		

Dimensions

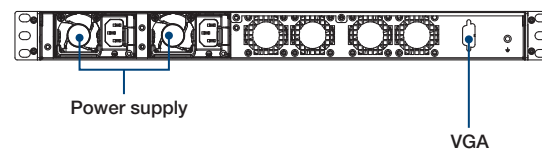
Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Ordering Information

Part No.	CPU	Core/Thread	Base frequency	QAT	DDR4	BMC	10GbE SFP+	1GbE RJ45	PCIe x8	NMC	VGA	System FAN	Power Supply	Redundancy
FWA-3050-8CA1R	Intel® Xeon® D-2145NT	8/16	1.9GHz	20G	4	Yes	4	8	1	1	1	2	300W AC	Yes
FWA-3050-14A1R	Intel® Xeon® D-2177NT	14/28	1.9GHz	100G	4	Yes	4	8	1	1	1	4	300W AC	Yes
FWA-3050-16A1R	Intel® Xeon® D-2187NT	16/32	2.0GHz	100G	4	Yes	4	8	1	1	1	4	300W AC	Yes

Packing List

Description	Quantity
FWA-3050 barebone	1
SATA cable	1
Left/Right mounting ears(for 4x post)	1
Console cable	1
China RoHS letter	1

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
1700002448	Power cord 3P, 180cm, Taiwan
968AE00073	Slide rail
FWA-3050-800WPSU	1pc 800W DC PSU with 1pc DC cable
FWA-3050-2POST	FWA-3050 rackmount kit for 2 post cabinet
FWA-3050-300WPSU	1pc 300W AC PSU