

FWA-5020

1U Rackmount Network Appliance with Intel® Xeon® Processor E5-2600 v4 series, up to 4 NMC slots

NEW



Features

- Single or dual Intel® Xeon® E5-2600 v4 processor(s) up to 145W TDP
- DDR4 2400 MHz ECC registered memory up to 512 GB (CPU SKU)
- 4 x GbE with LAN bypass, 2 x GbE for Mgmt (SKU dependent)
- 2 x 10GbE SFP+ NICs (SKU dependent)
- Up to 4 x NMC (Network Mezzanine Card) slots for a wide range of GbE, 10GbE and 40GbE NMCs with or without advanced LAN bypass
- 2 x 2.5" SATA HDDs/SSDs
- IPMI 2.0 compliant Remote Management
- Advanced Platform Reliability and Serviceability
- 2 x internal CLC PCIe card (Dual DH8955) supported (SKU dependent)

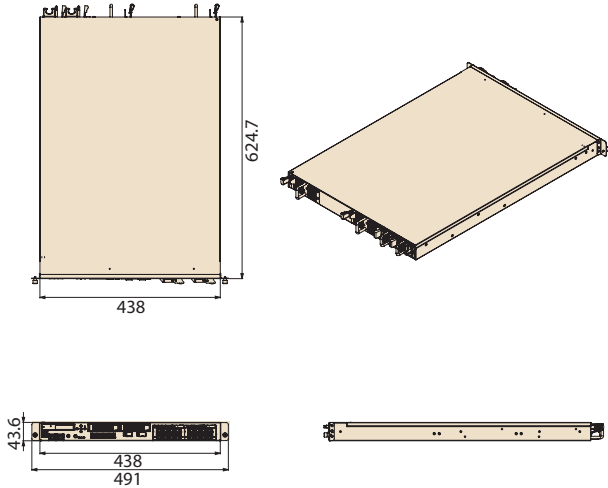


Specifications

SKU		FWA-5020L-00A1R	FWA-5020U-00A1R	FWA-5020U-D0A1R
Form Factor		1U-Rack Mount		
Processor System	Processor	1 x Intel® Xeon® E5-2600 v3 / v4 Socket		2 x Intel® Xeon® E5-2600 v3 / v4 Socket
	Core Number	8C/10C/12C/14C/16C/18C/20C/22C		
	Frequency	2.0GHz/2.1GHz/2.2GHz/2.3GHz/2.4GHz/2.6GHz		
	L2 Cache	30MB ~ 55 MB		
	Chipset	C612		
	BIOS	AMI EFI 64Mbit		
Virtualization		VT-x		
Memory	Technology	DDR4, 2133/2400MHz(CPU SKU)		
	Max. Capacity	256GB (CPU0 x8 DIMM,CPU1 x8 DIMM)		
	Socket	16 x 288-pin RDIMM		
	ECC Support	Yes		
Networking	Controller	1 x Intel® I210		
	1GbE	<ul style="list-style-type: none"> ▪ 2 x 1GbE RJ45 for management via Intel® i210-AT 	<ul style="list-style-type: none"> ▪ 4 x 1GbE RJ45 with 2 segment advanced bypass support via I-350 AM4 ▪ 2 x 1GbE RJ45 for management via Intel® i210-AT 	<ul style="list-style-type: none"> ▪ 2 x 1GbE RJ45 for management via Intel® i210-AT
	10GbE	NA	2*10GbE SFP+ via Intel® X710	NA
	LAN Bypass	NA	2 segment Advanced LAN Bypass	NA
Expansion	NMC	2 NMCs		
	PCIe	NA		Up to 2* Proprietary x16 crypto PCIe
Storage	2.5" HDD/SSD	Max. 2 x 2.5" HDD/SSD		
	mSATA SSD	2 x mSATA		
I/O	Console port	1		
	USB 3.0	2		
LCD Module	TPM	On board TPM 1.2 Chip support		
	LCD	16x2 graphic display,5 buttons		
	Power Type	AC, redundant/ DC, redundant (optional)		
Power Supply	Watts	650W		
	Input	(AC) 100 ~ 240 V @ 50 ~ 60 Hz, full range, (DC) -40 ~ - 72V, 12 ~ 24A		
	Connector	AC 3pin plug		
	Operating Temperature (air flow 0.7 m/sec)	0 ~ 40 °C (32 ~ 104 °F)		
Environment	Non-operating Temperature	-20 ~ 80° C (-4 ~ 167° F) and 40° C @ 95% RH Non-Condensing humidity		
	Vibration Resistance	with SATA HDD: 0.5 Grms, IEC 60068-2-64, 5-500Hz, 1hr/axis		
	Shock Protection	with SATA HDD: 10G, IEC-60068-2-27, half sine, 11ms duration		
Cooling		2x system FAN with smart FAN	3x system FAN with smart FAN	
Mechanical	Construction	Iron		
	Mounting	Rack mount kits(ear)/ Slide rail(Optional)		
	Dimensions (W x H x D)	438 x 44x 625 mm (17.24" x1.732" x24.61")		
	Weight	15Kg		
OS support		Linux (CentOS, Red Hat, Ubuntu)		
Advantech S/W Packages		QuickStart Linux Image (CentOS based reference BSP) including		
		<ul style="list-style-type: none"> ▪ IPMI Tool ▪ LCD4Linux ▪ Advanced LBP Utility Individual packages: <ul style="list-style-type: none"> ▪ Advanced LBP Library 		
IPMI		IPMI IPMI v2.0 compliant BMC with web interface (AMI MegaRAC SP-X)		
Certification		CE/FCC/CB/UL/CCC (FWA-5020U-D0A1R without CCC)		

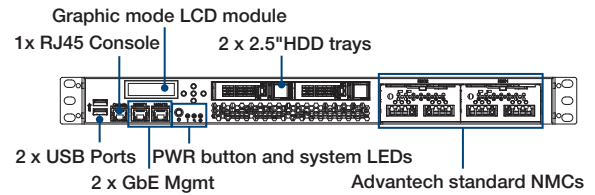
Dimensions

Unit: mm



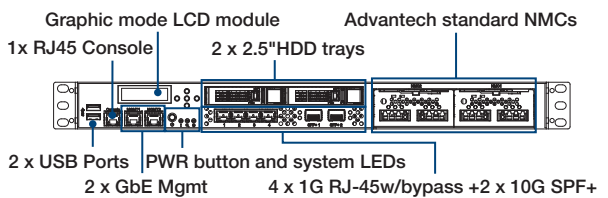
FWA-5020L-00A1R

Front Panel External I/O Mechanical Layout/Drawing



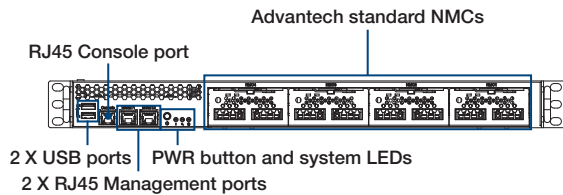
FWA-5020U-00A1R

Front Panel External I/O Mechanical Layout/Drawing



FWA-5020U-D0A1R

Front Panel External I/O Mechanical Layout/Drawing



Ordering Information

PN	CPU	DDR4	PCIe Slot	Console Port	RJ45 LAN Port	Fixed I/O Port	NMC Slot	LCM	PSU
FWA-5020L-00A1R	Single Intel® Xeon® E5-2600 v3 / v4	8	NA	1	2	NA	2	1	Red. 650W AC PSU
FWA-5020U-00A1R	Single Intel® Xeon® E5-2600 v3 / v4	8	NA	1	2	-4*1G RJ-45 w/Advanced LBP -2*10G SFP+	2	1	Red. 650W AC PSU
FWA-5020U-D0A1R	Dual Intel® Xeon® E5-2600 v3 / v4	16	2*Proprietary Crypto x16 PCIe	1	2	NA	4	NA	Red. 650W AC PSU

Packing List

Part Number	Description
1700020691-01	Console Cable D-SUB9P(F)/RJ45 220cm

Recommended PCIe list

Part Number	Description
PCIe-3021-00E	Dual Intel Coletto 8955 Crypto card (x16 gold finger)

Optional Accessories

Part Number	Description
9680016905	Tool-Less Server slide, 26", for 438 Chass
1700020691-01	Console Cable D-SUB9P(F)/RJ45 220cm
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
1700025855-01	Power cord 3P 180 cm, India
1700025112-01	Power cord 3P 180 cm, Brazil
1700022938-01	Power cord 3P 300 cm, Korea