FWA-6171

2U Rackmount Network Appliance with dual 3rd Gen Intel® Xeon® Scalable processors, up to 8 NMC slots

Features

- 2 x Intel® Xeon® Scalable Processors Platinum 8300, Gold 6300, Gold & 5300 or Silver 4300
- 32 x DDR4 2666/2933/3200 ECC registered memory up to 2048GB
- 8 x NMC (Network Mezzanine Card) slots for a wide range of GbE, 10GbE, 40GbE and 100GbE NMCs with or without Advanced LAN bypass
- 1 x internal PCIEx16 (FH/HL) slots for add-on cards
- 2 x 2.5" removable external SATA HDDs/SSDs
- 4 x M.2 2280 SSD
- Redundant FW images (Advantech BIOS and BMC)
- Onboard BMC (IPMI 2.0 compliant) with Web Interface, KVM and Redfish

Specifications

System P/N		FWA-6171	FWA-6171L
Form Factor		2U - Rack Mount	
Processor System	Processor	2 x 3rd Gen. Intel® Xeon® Scalable Processors Platinum 8300, Gold 6300, Gold 5300, Silver 4300	
		Max. up to 235W	Max. up to 185W
	Core Number	Up to 38 cores	Up to 28 cores
	Frequency	Up to 3.6GHz	
	L3 Cache	1.5MB/core	
	Chipset	C621A (without QAT)	
	BIOS	AMI EFI 64Mbit	
Virtualization		VT-d	
Memory	Technology	DDR4, 2666/2933/3200MHz	
	Max. Capacity	2048GB (CPU0x16,CPU1x16)	
	Socket	32 x 288-pin RDIMM	
	ECC Support	Yes	
Networking	Controller	2 x Intel I210-AT, 1 x Realtek PHY	
	1GbE	2 x 1GbE RJ45 for management via Intel I210-AT, 1 x dedicated RJ45 for IPMI	
	10GbE	NA	
	LAN bypass	LBP support by NMC	
Expansion	PCIex8	1 x FH/HL and 1 x HH/HL (option)	
	PCIex16	1 x FH/HL	
	NMC	8 x NMCs	
Storage	2.5" HDD/SSD	Max. 2 x 2.5" HDD/SSD	
	M.2 SSD	4 x M.2 2280	
I/O	Console port	1 (RJ45)	
	USB3.0	2	
	LED Indicator	1 x PWR_LED,1 x Alert_ED,1 x Locate_LED, 1 x SW defined_LED	
	VGA	Yes (D-sub)	
	Others	1 x Power button, 1 x SW define button	
TPM	Trust Platform Module	Modularized TPM(1.2), Option: TPM(2.0)	
LCD Module		16 x 2 graphic display, 5 buttons	
Power Supply	Power Type	CRPS Redundant AC PSU (redundant DC PSUs on request)	
	Watts	1300W	850W
	Input	AC 100 ~ 240 V @ 50 ~ 60 Hz, full range	
	Connector	AC 3pin plug	
Environment	Operating Temperature (air flow 0.7 m/sec)	0 ~ 40 °C (32 ~ 104 °F)	
	Non-operating Temperature	-20 ~ 80° C (-4 ~ 167° 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, IEC-60068-2-27, half sine, 11ms duration	
Cooling		3 x system FAN with smart FAN control	
Mechanical	Construction	Iron	
	Mounting	2U Rackmount	
	Dimensions (W x H x D)	438 x 88 x 680mm (17.24" x 3.46" x 26.77")	
	Weight	20Kg (G.W)	
OS support		Linux (CentOS, Red Hat, Ubuntu)	
Advantech S/W Packages		QuickStart Linux Image (CentOS based reference BSP) including ▪ afru ▪ ipmitool ▪ LCD4Linux ▪ Advanced LBP Utility ▪ Intel DPDK ▪ Intel QAT Individual packages: ▪ Advanced LBP Library ▪ DUI (Offline Diagnostics)	
IPMI		Carrier Grade BMC, IPMI v2.0 compliant, with web interface, iKVM on request (Advantech IPMI Core)	
Certification	EMC/Safety	CE/FCC/VCCI/CB/UL/CCC	

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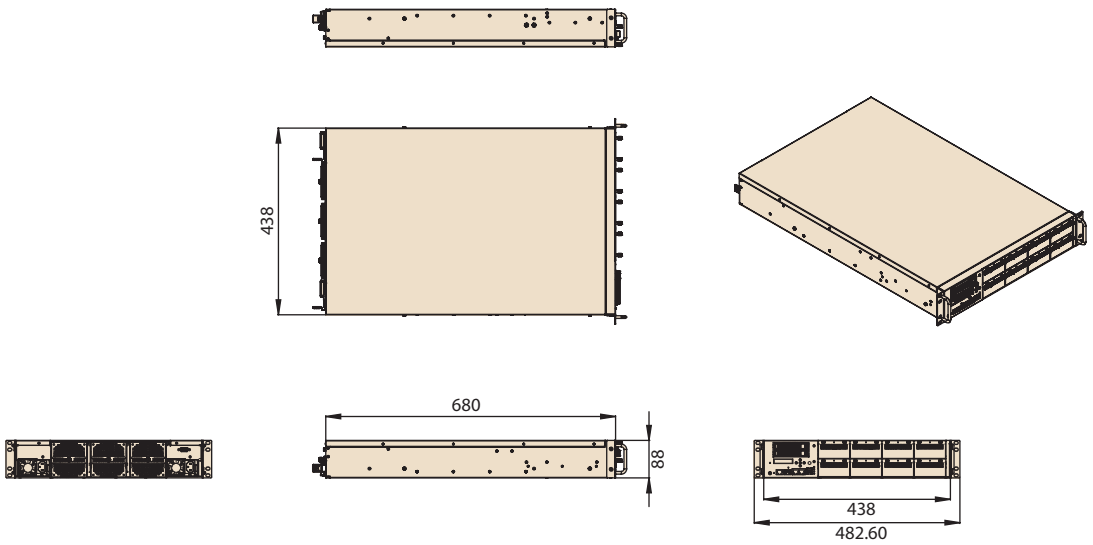
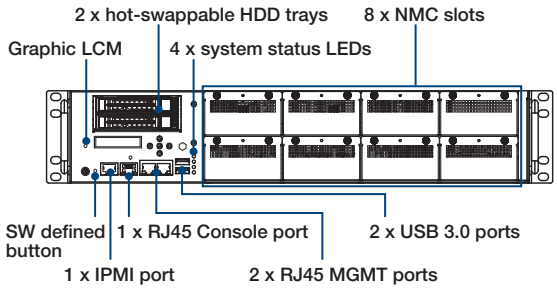
Dimensions

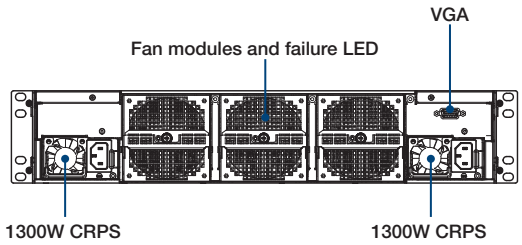
Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Ordering Information

Part Number	CPU	DDR4	PCH	NMC slot	PCIe slot	HDD qty.	BMC	TPM	USB3.0	MGMT port	LCM	Console	PSU
FWA-6171-00A1R	2 sockets for 3rd Gen. Intel® Xeon® Scalable Processors (up to 235W)	32	C621A	8	1x PCIEx16 (FH/HL)	2 (2.5")	Yes	1.2	2	2 for Mgmt, 1 for IPMI	Yes	1	1300W AC
FWA-6171L-00A1R	2 sockets for 3rd Gen. Intel® Xeon® Scalable Processors (up to 185W)	32	C621A	6	1x PCIEx16 (FH/HL)	2 (2.5")	Yes	1.2	2	2 for Mgmt, 1 for IPMI	Yes	1	850W AC

Packing List

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

Optional Power Supply List

Part Number	Description
96PSRM-A850WCRP	Delta CRPS AC 850W DPS-850AB-4 H
96PSRM-D800WCRP	DC 800W PSU CRPS module

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
98923260J0E	TPM 2.0
9680016905	Slide rail