

FWA-5070

1U Rackmount Network Appliance with Intel® Xeon® Processor Scalable Family, up to 4 NMC Slots



Features

- 1 x 1st/2nd Gen Intel® Xeon® Scalable Processors, up to 165W
- 12 x DDR4 2400/2666/2933 ECC registered memory up to 384GB
- Build-in QAT support (By SKU)
- 4 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 PCIe x8 or x16 slots support for FH/HL add-on card
- 2 x internal 2.5" SATA HDDs/SSDs
- 1 x M.2 2280 SSD
- IPMI 2.0 compliant Remote Management

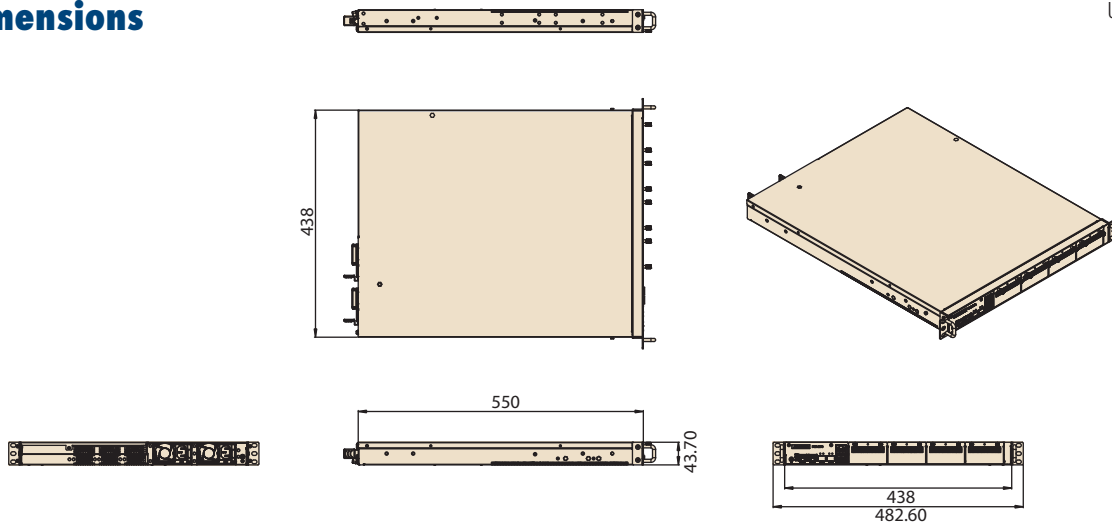


Specifications

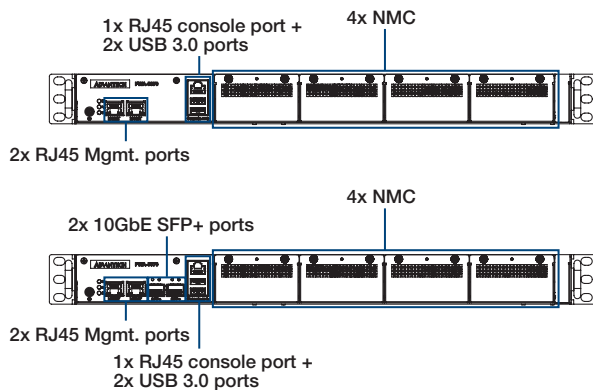
System P/N		FWA-5070L-00A1R	FWA-5070U-00A1R
Form Factor		1U- Rack Mount	
Processor System	Processor	Intel® Xeon® Platinum 8100/8200, Gold 6100 & 5100/6200 & 5200, Silver 4100/4200 and Bronze 3100/3200 processors	
	Core Number	8C/10C/12C/14C/16C/18C/20C/22C/24C/26C/28C	
	Frequency	2.0GHz/2.1GHz/2.2GHz/2.3GHz/2.4GHz/2.6GHz/3.0GHz/3.2GHz/3.4GHz	
	L2 Cache	30MB - 75 MB	
	Chipsset	C621 (without QAT)	C626 (with up to 40Gb/s QAT)
BIOS	AMI Efi 64Mbit		
Virtualization	VT-x, VT-d, EPT		
Memory	Technology	DDR4, 2133/2400/2666MHz	
	Max.Capacity	384GB	
	Socket	12 x 288-pin RDIMM	
	ECC Support	Yes	
Networking	Controller	1 x Intel i210-AT	
	1GbE	2 x 10/100/1000 Mbps RJ45 via Intel i210-AT chip	
	10GbE	N/A	2 x 10G SFP+ via Intel C626
	LAN bypass	LAN bypass is supported by NMC	
Expansion	PCIe	1 x PCIe x16(FH/HL)	1 x PCIe x8 (FH/HL)
	NMC	4	4
Storage	2.5"HDD/SSD	2 (Internal)	
	3.5"HDD	N/A	N/A
	m.2 SSD	1 x M.2 2280	
	Others	N/A	
I/O	Console port	1	
	USB3.0	2	
	LED Indicator	1 x PWR_LED, 1 x Alert_LED, 1 x SW_LED	
	Others	1 x Power Button	
TPM	Modularized TPM 1.2 (TPM 2.0 optional)		
LCD Module	N/A		
Power	Power Type	AC, redundant	
	Watts	650W	
	Input	100V - 240V	
	Connector	CRPS	
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	0.3 Grms, IEC 60068-2-64, 5-500Hz, 1hr/axis	
	Shock Protection	10G, IEC-60068-2-27, half sine, 11ms duration	
Cooling	3 x smart FAN module with smart FAN		
Mechanical	Construction	Steel	
	Mounting	1U Rackmount	
	Dimensions (W x H x D)	438 x 44 x 550(mm)	
	Weight	20KG	
OS Support	Linux (CentOS, Red Hat, Ubuntu)		
Advantech S/W Packages	QuickStart Linux Image (CentOS based reference BSP):		
	<ul style="list-style-type: none"> ▪ alru ▪ ipmitool ▪ LCD4Linux ▪ Advanced LBP Utility ▪ Intel DPDK ▪ Intel QAT ▪ DUI (Offline Diagnostics) 		
IPMI	Individual packages:		
	<ul style="list-style-type: none"> ▪ Advanced LBP Library ▪ DUI (Offline Diagnostics) 		
IPMI	IPMI v2.0 compliant, with web interface, iKVM on request (Advantech IPMI Core)		
Certification	CE/FCC/CB/UL/CCC		

Dimensions

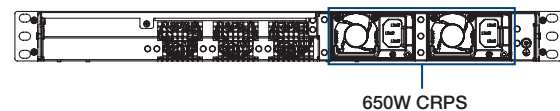
Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Ordering Information

Part No.	CPU	DDR4	PCH	QAT	PCIe slot	NMC slot	USB 3.0	MGMT port	10G SFP+	Console	BMC	LCM	VGA	PSU
FWA-5070L-00A1R	1 socket for Intel® Xeon® Scalable Processors	12	C621	No	1	4	2	2	N/A	1	Yes	N/A	N/A	650W AC
FWA-5070U-00A1R	1 socket for Intel® Xeon® Scalable Processors	12	C626	Yes	1	4	2	2	2	1	Yes	N/A	N/A	650W AC

Packing List

Part Number	Description	Quantity
1651003167-01	CPU Carrier	1
1960081155N011	CPU Heatsink	1
13960086225N003	Rack mount bracket	2
1930002235	Screws for HDD installation	8
1931040620	Screws for rack mount bracket	4
1930007866	Screws for slide rail	4
1700018950	Console cable	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
1700027334-01	USB for RJ45 console cable, 190cm
98923260J0E	TPM 2.0
968DE00067	Slide rail