

# FWA-6170

## 2U Rackmount Network Appliance with Intel® Xeon® Processor Scalable Series, up to 8 NMC slots

Preliminary



### Features

- 2 x Intel® Xeon® Platinum 8100, Gold 6100 & 5100, Silver 4100 and Bronze 3100 processors up to 165W TDP
- 24 x DDR4 2133/2400/2666 ECC registered memory up to 768GB
- C626 PCH, 40Gb/s QAT support
- 8 x NMC (Network Mezzanine Card) slots for a wide range of GbE, 10GbE, 40GbE and 100GbE NMCs with or without Advanced LAN bypass. Optional support 4 x HDD kit (for 2.5" HDD) on the top NMC slots
- 2 x internal PCIe x8 slots support for low-profile add-on cards
- 2 x 2.5" removable external SATA HDDs/SSDs
- IPMI 2.0 compliant Remote Management

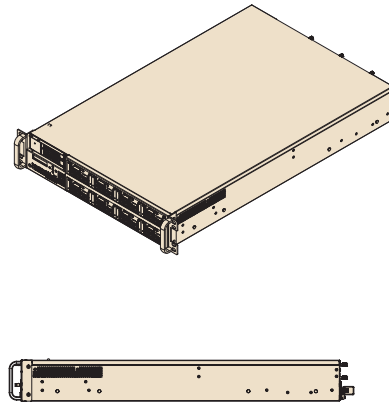
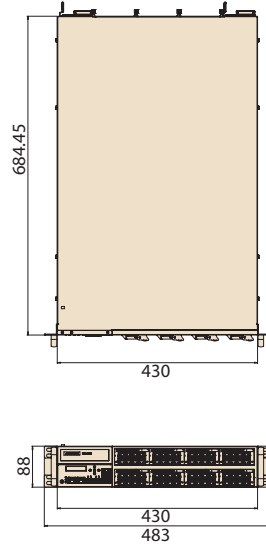


### Specifications

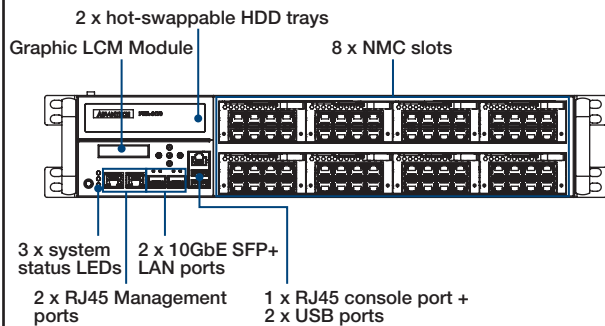
System P/N		FWA-6170Q-00A1R	FWA-6170-00A1R
Form Factor		2U - Rack Mount	2U - Rack Mount
Processor System	Processor	2 x Intel® Xeon® Platinum 8100, Gold 6100 & 5100, Silver 4100 and Bronze 3100 processors	
	Core Number	8C/10C/12C/14C/16C/18C/20C/22C/24C/26C/28C	
	Frequency	2.0GHz/2.1GHz/2.2GHz/2.3GHz/2.4GHz/2.6GHz/3.0GHz/3.2GHz/3.4GHz	
	L2 Cache	30MB - 75 MB	
	Chipset	C626 (with 40Gb/s QAT)	C622 (without QAT)
	BIOS	AMI EfI 64Mbit	
Virtualization		VT-x	
Memory	Technology	DDR4, 2133/2400/2666MHz	
	Max. Capacity	768GB (CPU0x12, CPU1x12)	
	Socket	24 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	
	10GE	2 x 10G SFP+ via Intel C622/C626	
	LAN bypass	LBP support by NMC	
Expansion	PCIe x8	2 x low-profile Gen3 x8 slot	
	NMC	8 NMCs	
Storage	2.5" HDD/SSD	Max. 2.5" HDD/SSD	
	3.5" HDD	2	
	m.2 SSD	2 x M.2 2280	
I/O	Console port	1	
	USB3.0	2	
	LED Indicator	1 x PWR_LED, 1 x Alert_LED, 1 x Locate_LED	
	Others	1 x power button	
	TPM	TPM 1.2	
LCD Module		16 x 2 graphic display, 5 buttons	
Power	Power Type	AC, redundant DC, redundant (optional)	
	Watts	1200W	
	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	with SSD: 0.3 Grms, IEC 60068-2-64, 5-500Hz, 1hr/axis	
	Shock Protection	with SSD: 10G, IEC-60068-2-27, half sine, 11ms duration	
Cooling		6x system FAN with smart FAN	
Mechanical	Construction	Steel	
	Mounting	2U Rackmount	
	Dimensions (W x H x D)	430 x 88 x 684.5 mm (16.9 x 3.4 x 26.9)	
	Weight	20 KG	
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"> <li>▪ afru</li> <li>▪ ipmitool</li> <li>▪ LCD4Linux</li> <li>▪ Advanced LBP Utility</li> <li>▪ Intel DPDK</li> <li>▪ Intel QAT</li> <li>▪ DUI (Offline Diagnostics)</li> </ul> Individual packages: <ul style="list-style-type: none"> <li>▪ Advanced LBP Library</li> <li>▪ DUI (Offline Diagnostics)</li> </ul>	
IPMI		Carrier Grade BMC, IPMI v2.0 compliant, with web interface, iKVM on request (Advantech IPMI Core)	
Certification		CE/FCC/CB/UL/CCC	

## Dimensions

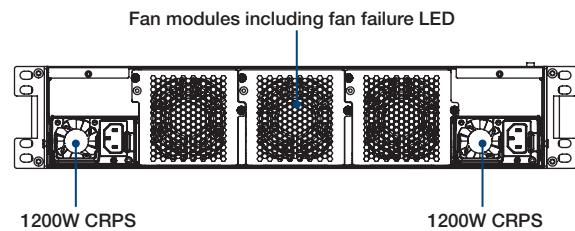
Unit: mm



### 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	RJ45 LAN port	10G SFP+ port	Console port	LCM	PSU
FWA-6170Q-00A1R	2 sockets for Intel® Xeon® Processor Scalable Family	24	C626	Yes	2	8	2	2	2	1	1	1200W AC PSU
FWA-6170-00A1R	2 sockets for Intel® Xeon® Processor Scalable Family	24	C622	No	2	8	2	2	2	1	1	1200W AC PSU

## Packing List

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

## 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
9680015345	Slide rail