FWA-4134

2U Rackmount Network Application Platform base on Intel 12th/13th/14th Gen Intel® Core Processors

Features

- Intel® 12th/13th/14th gen Core™ i9/i7/i5/i3 Processors
- Combining Performance-cores with Efficient-cores supporting up to 24 cores/ 32 threads for outstanding performance
- 4 x DDR4 3200MHz ECC UDIMMs, up to 128GB
- 2x GbE Mgmt ports
- 4/8 x NMC slots (Network Mezzanine Card) for a wide range of GbE, 10GbE, 40GbE and 80GbE NMCs with or without advanced LAN bypass
- One PCIE x8 Slot on rear, support FH/HL add-on cards with Gen3 PCIE x4 bandwidth
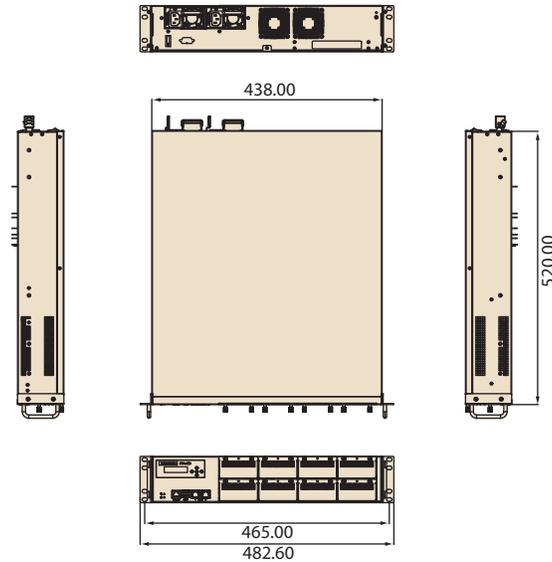- One mSATA slot, 4 x 3.5" HDD Bay,1x MiniPCIE slot

Specifications

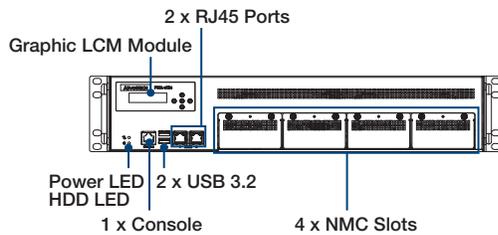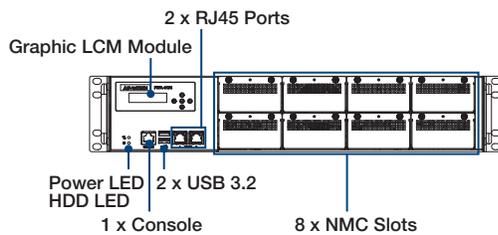| System P/N		FWA-4134-00A1R	FWA-4134-01A1R
Form Factor		2U	
Processor System	Processor	Intel 12th/13th/14th Gen Core processors LGA1700	
	Core Count	up to 24C	
	Base Frequency	up to 3.6 GHz	
	Chipset	R680E	
	BIOS	AMI UEFI	
Virtualization		Intel® VT-x, VT-d, SR-IOV	
Memory	Technology	DDR4, 3200MHz	
	Max. Capacity	128 GB	
	Socket	4 x 288-pin DIMM	
	ECC Support	ECC/Non-ECC UDIMM	
Networking	Controller	2 x Intel i210-AT	
	1GbE	2 x 1GbE RJ45	
	LAN Bypass	Support by NMC	
Expansion Slot	PCIe x8	1 PCIE x 8 slot on rear, PCIE x 4 bandwidth, Support FH/HL card with Gen3	
	NMC	4	8
	Mini PCIe	1	
Storage	HDD Bay	4 x 3.5" or 4 x 2.5" HDD/SSD	2 x 3.5" or 2 x 2.5" HDD/SSD
	mSATA	1	
I/O	Console	1 x RJ45 type console	
	USB	2 x USB 3.2 Gen 2x1 ports	
	LED Indicator	1 x Power (Green) 1 x HDD LED (Amber)	
	Display	1 x VGA port	
	Button	1 x Power button 1 x SW-defined button (option)	
TPM		Support by TPM 2.0 module (Optional)	
LCD Module		16 x 2 graphic display,5 buttons	
Power Supply	Power Type	AC Redundant	
	Watts	350 W	
	Input	100-240 V	
	Connector	AC 3pin plug	
Environment	Operating Temperature	0 ~ 40 °C (32 ~ 104 °F)	
	Non-operating Temperature	-40 ~ 70 °C (-40 ~ 158 °F), 60 °C@95% Non-Condensing Humidity	
	Vibration Resistance (Operation)	with SATA HDD: 0.5 Grms, IEC 60068-2-64, 5-500Hz, 1hr/axis	
	Shock Protection (Operation)	with SATA HDD: 10G, 11ms,IEC-60068-2-27, X,Y,X-X,-Y-Z axis, 3times per axis	
Cooling		2 x System Smart Fan	
Mechanical	Construction	SECC	
	Mounting	Rackmount	
	Dimensions (W x H x D)	438 x 88 x 520 mm (17.24" x 3.4" x 20.4")	
	Weight (G.W.)	20 kg (11.9 lbs)	
OS Support		Linux (Red Hat, Ubuntu) Only UEFI FW and UEFI aware Linux OS	
Advantech S/W Packages		1. ALBPCU 2. Server iManager (Linux base) -Health Guard -Diagnostic Framework -Network device identifier (NDI) 3. Quick Start Linux Image	
Certification	EMC/Safety	CCC/CE/FCC/UL/CB	

Dimensions

Unit: mm

438.00

520.00

465.00
482.60

Front Panel External I/O Mechanical Layout/Drawing

FWA-4134-00A1R

2 x RJ45 Ports

Graphic LCM Module

Power LED
HDD LED
1 x Console
2 x USB 3.2
4 x NMC Slots

FWA-4134-01A1R

2 x RJ45 Ports

Graphic LCM Module

Power LED
HDD LED
1 x Console
2 x USB 3.2
8 x NMC Slots

Rear Panel External I/O Mechanical Layout/Drawing

Power Button
1 x VGA Port

Ground
2 x Smart Fan
Redundant 350W PSU
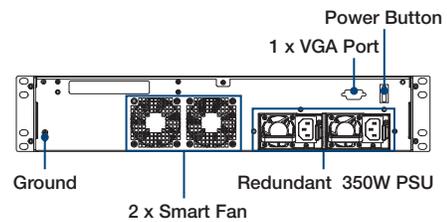
Ordering Information

Part Number	Processor	DDR4	PCH	QAT	NMC Slot	PCIe Slot	Storage Bay	USB 3.0	IPMI Port	Console Port	LAN Port 1G RJ45	System Fan	PSU
FWA-4134-00A1R	Single socket for 12th/13th/14th Gen Intel® Core™ processor	4	R680E	N/A	4	1	4	2	N/A	1	2	2	CRPS 350W
FWA-4134-01A1R	Single socket for 12th/13th/14th Gen Intel® Core™ processor	4	R680E	N/A	8	1	2	2	N/A	1	2	2	CRPS 350W

Packing List

Part Number	Description	Quantity
1700018950	D-SUB Cable 9P(F)/RJ45-8P8C 220cm C=BL YH-642	1
1960083584N003 1960083854T000	Rack Mout Bracket	2

Optional Accessories

Part Number	Description
1700009652	Power cord 3P 180 cm, China
968DE00067	2U Slide rail, 26" (pair)
PCA-TPMSPI-00A1	TPM 2.0 Module by SPI for CPU cards, A101-1