

# FWA-1112VC

## Fanless Network Appliance for SD-WAN & uCPE Edge Deployment with Coming 5G & Wi-Fi 6 Support

Preliminary



### Features

- Intel® Atom® C3000-series processor
- Fan-less design
- IP40 compliance
- Wide-operating temperature support from -20 ~ 70 °C by SKU option
- Design reserved for 5G and Advanced-LTE module
- Design reserved for 802.11ax (WiFi6) module
- Reliability enhancement with better ESD/Surge protection design
- 6x ethernet interfaces with 6xRJ-45 connector or 4x RJ-45 + 2x 10G/1G SFP+ connector by SKU



### Specifications

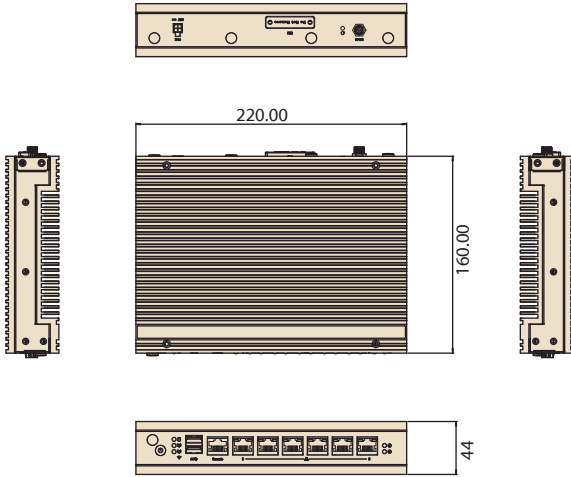
PN		FWA-1112VC-4CA1S	FWA-1112VC-8CA1S
Processor	CPU	Intel® Atom® C3558	Intel® Atom® C3758
	Core Count	4C	8C
	Base Frequency	2.2GHz	2.2GHz
	TDP	16W	25W
	QAT Technology	Yes	Yes
	BIOS	AMI Efi 64Mbit	
Memory	Technology	DDR4 2133MHz	DDR4 2400MHz
	Socket	1 x 260-pin SO-DIMM	
	Max. Capacity	32GB	
	ECC Support	YES	
Storage	m.2 storage	1 x m.2280 SATAIII SSD	
	eMMC storage	Default not installed; 4GB/8GB/16GB/32GB is optional by project support	
Network	Controller	Intel® SoC MAC with 1 x Marvell 88E1543 PHY, 2 x Intel i211	
	Connector	4 x RJ45 + 2 x 10G/1G SFP+	
	PoE	2 x PoE+ up to 30W/port is optional by project support	
	VPD	Yes	
	SSID	Yes	
I/O	Console	1 x RJ45 port	
	USB	2 x USB3.0 Type A port	
	HDMI/VGA	NA	
Expansion	M.2	1 x M-key for 2280 SATAIII SSD 1 x B-key for 3042/3052 LTE/5G module 1 x E-key for 2230 Wifi module	
	Mini-PCIe	NA	
	SIM	Default 1 x Mini-SIM socket; 2nd Mini SIM socket for the 2nd LTE module is optional by project support	
	TPM	TPM2.0 on-board; None TPM is optional by project	
LED	LED	2 x Fixed LED: Power, HDD 2 x SW defined LED: LTE, LTE&Wifi 2 x SFP LED: SFP1, SFP2	
	PW on/off	Button	1 x Power Button
External Power Adaptor	Power Type	ATX mode	
	Watts	36W	
	Input	100 ~ 240V <sub>ac</sub> , 50/60Hz	
	Connector	DC Jack Lockable	
	Output	12V <sub>dc</sub> 3A, 36W	
Environment	PoE Adaptor	Optional; PoE is optional by project	
	Operating (0.7m/s air flow)	-20 ~ 70 °C (-4 ~ 158 °F)	-20 ~ 60 °C (-4 ~ 140 °F)
Mechanical	Non-operating	Temperature -40 ~ 85 °C (-40 ~ 185 °F) and 40 °C @ 95% RH Non-Condensing	
	Material	Iron chassis with aluminum heat-sink	
	Dimensions	220 x 160 x 44 mm (8.7" x 6.3" x 1.7")	
	Weight	2.3Kg (5.07lb)	
	Mounting	Rack Mount, Wall Mount	
OS	OS	Linux	
SW	SW	QuickStart Linux Image, Server iManager	
Others	IP Rating	IP40	
Certification	Safety	UL 62368, CB 60950/62368, CCC	
	EMC	CE EN55032/EN55024 ClassB, FCC ClassB, AS/NZS CISPR32, IEC-61000-4-2/61000-4-5, EN 300 386	
	ROHS	ROHS, REACH, WEEE	

- 2 x PoE+ design up to 30W/port is reserved but not included; available by project support
- eMMC design is reserved but not included; available by project support
- Default RF module slot is 1 x M.2 B-key 3042/3052 for LTE/5G and 1 x M.2 E-key 2230 for Wifi5/Wifi6
- 2 x LTE or Mini-PCIe Wifi design is reserved by BOM option, available by project support
- 6 x RJ45 SKU is available by BOM option

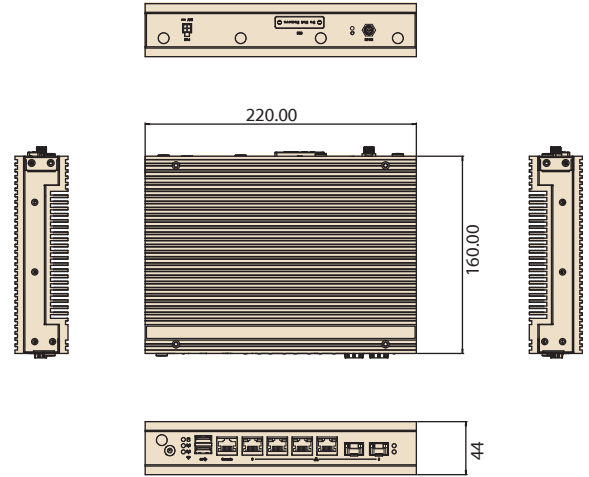
## Dimensions

Unit: mm

### 6 x RJ45 SKU

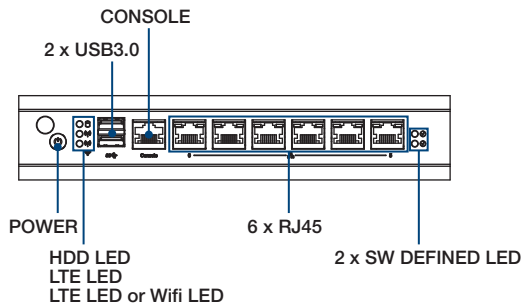


### 4 x RJ45 + 2 x 10G/1G SFP+ SKU

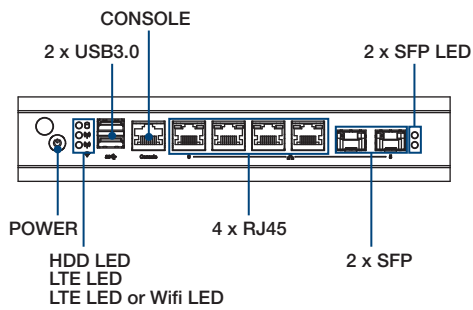


## Front Panel External I/O Mechanical Layout/Drawing

### 6 x RJ45 SKU

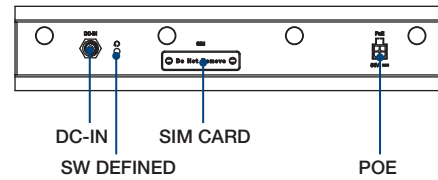


### 4 x RJ45 + 2 x 10G/1G SFP+ SKU

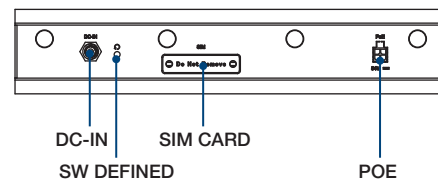


## Rear Panel External I/O Mechanical Layout/Drawing

### 6 x RJ45 SKU



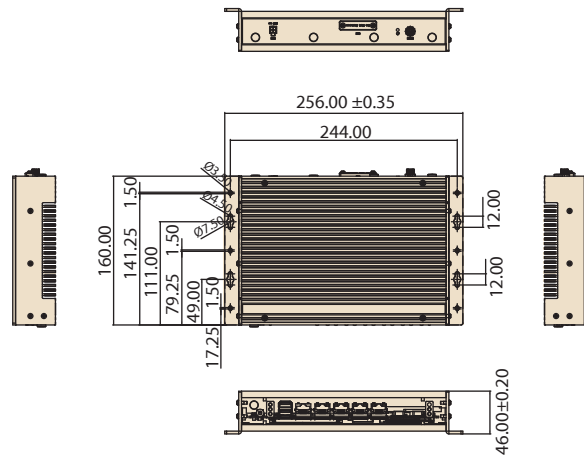
### 4 x RJ45 + 2 x 10G/1G SFP+ SKU



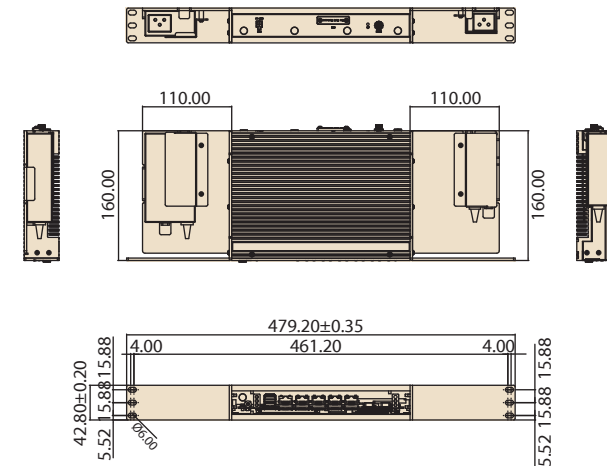
## Dimensions

Unit: mm

### Wall Mount Kit



### Rack Mount Kit



## Ordering Information

Part No.	CPU	Core	Fan-less	Ethernet	Console	USB 3.0	So-DIMM DDR4 slot	M.2 2280 SSD slot	M.2 3042/3052 LTE/5G slot	M.2 3042 2nd LTE slot*	Mini-PCIe Wifi slot*	M.2 2230 Wifi slot	eMMC*	PoE*	DC input
FWA-1112VC-4CA1S	Intel Atom® C3558 2.2GHz	4	-20 ~ 70 °C	4 x RJ45 + 2 x 10G/1G SFP+	1 x RJ45	2	1	1	1	NA	NA	1	Optional	Optional	36W
FWA-1112VC-8CA1S	Intel Atom® C3758 2.2GHz	8	-20 ~ 60 °C	4 x RJ45 + 2 x 10G/1G SFP+	1 x RJ45	2	1	1	1	NA	NA	1	Optional	Optional	36W

## Optional Accessories

Item	Description	PN
36W Power Cord	Canada, USA, Philippines, Thailand, Taiwan	1700001524
	Europe, Indonesia, Israel	170203183C
	Malaysia, Singapore, UK	170203180A
	Japan	1700008921
	Korea	1700018409
	China	1700019146
	Brazil	1700022814-11
	India	1700025113-11
	Power Adaptor	AC-to-DC Adaptor, DC 12V 36W
PoE Adaptor	A/D 100-240V 65W 54V C14 4PIN MINI HOUSING 62368	XFWA-FSP065-DWAN3
Mounting Kit	Wall Mount Kit	FWA-1112VC-WMK
	Rack Mount Kit	FWA-1112VC-RMK
RF Kit	Wifi Kit	TBD
	LTE Kit	TBD
Others	Console Cable	1700020691-01

## Packing List

Description	Qty
PW adaptor	1unit
FWA-1112VC system	1unit