FWA-1112VCL

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

Features

- Intel® Atom® C3000-series processor
- Fan-less design
- IP40 compliance
- Normal-operating temperature support from 0 ~ 40 °C
- Design reserved for 5G and Advanced-LTE module
- Design reserved for 802.11ax (WiFi6) module
- TPM2.0 features is available by BOM option
- 6x ethernet interfaces with 6xRJ-45 connector or 4x RJ-45 + 2x 10G/1G SFP+ connector by SKU

Specifications

PN		FWA-1112VCL-2CA1S	FWA-1112VCL-4CA1S	FWA-1112VCL-8CA1S
Processor	CPU	Intel® Atom® C3338	Intel® Atom® C3558	Intel® Atom® C3758
	Core Count	2C	4C	8C
	Base Frequency	1.5GHz	2.2GHz	2.2GHz
	TDP	8.5W	16W	25W
	QAT Technology	NA	Yes	Yes
	BIOS	AMI Efi 64Mbit		
Memory	Technology	DDR4 1866MHz	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	6 x RJ45	4 x RJ45 + 2 x 10G/1G SFP+	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	TPM	Non-TPM as default; TPM2.0 is available by BOM option		
LED	LED	2 x Fixed LED: Power, HDD 4 x SW defined LED: LTE, LTE&Wifi, status1, status2	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_{AC}, 50/60Hz		
	Connector	DC Jack Lockable		
	Output	12V_{DC} 3A, 36W		
	PoE Adaptor	OptionI; PoE is optional by project		
Environment	Operating (0.7m/s air flow)	0 ~ 40 °C (32 ~ 104 °F)		
	Non-operating	Temperature -40 ~ 85 °C (-40 ~ 185 °F) and 40 °C @ 95% RH Non-Condensing		
Mechanical	Material	Iron chassis with aluminum heat-sink		
	Dimensions	220 x 160 x 31.2 mm (8.7" x 6.3" x 1.2")		
	Weight	1.6kg (3.53lb)		
	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

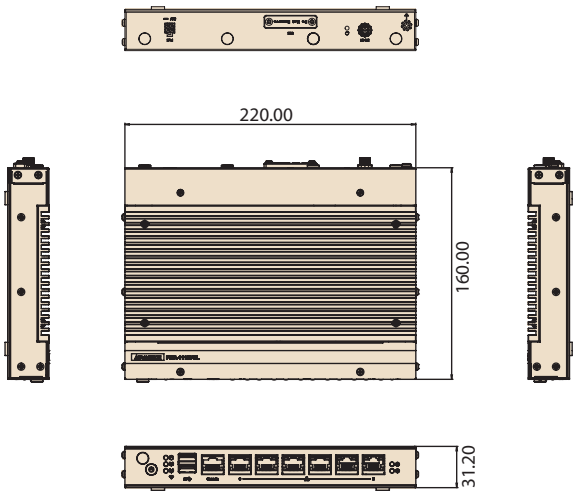
All product specifications are subject to change without notice.

Last updated: 15-Sep-2020

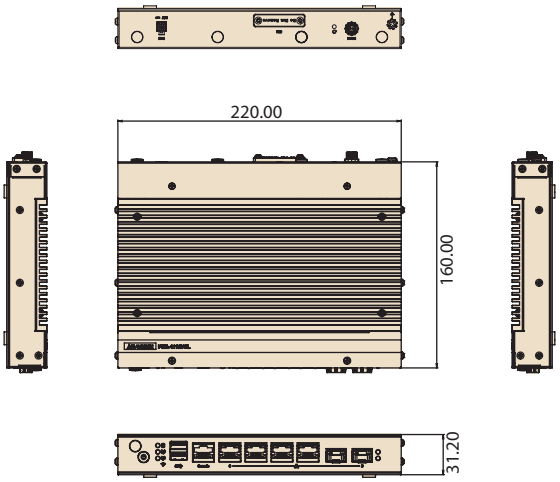
Dimensions

Unit: mm

6 x RJ45 SKU

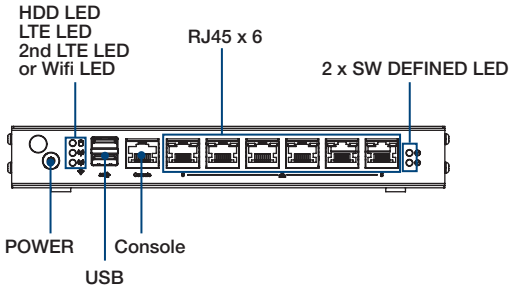


4 x RJ45 + 2 x 10G/1G SFP+ SKU

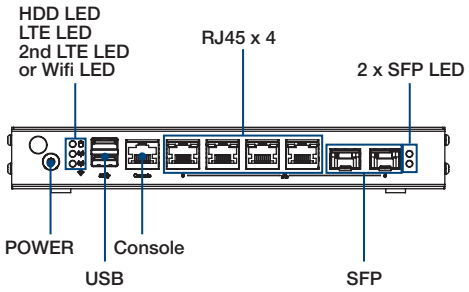


Front Panel External I/O Mechanical Layout/Drawing

6 x RJ45 SKU

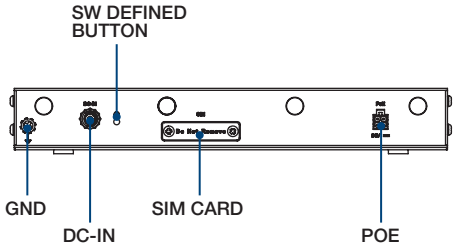


4 x RJ45 + 2 x 10G/1G SFP+ SKU

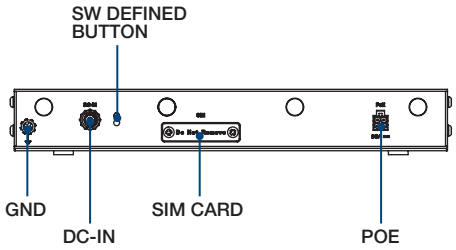


Rear Panel External I/O Mechanical Layout/Drawing

6 x RJ45 SKU



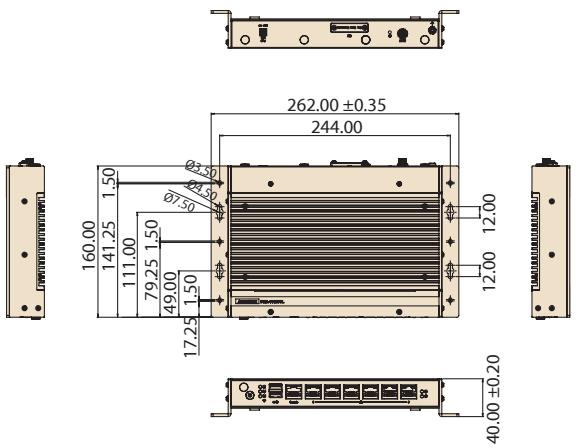
4 x RJ45 + 2 x 10G/1G SFP+ SKU



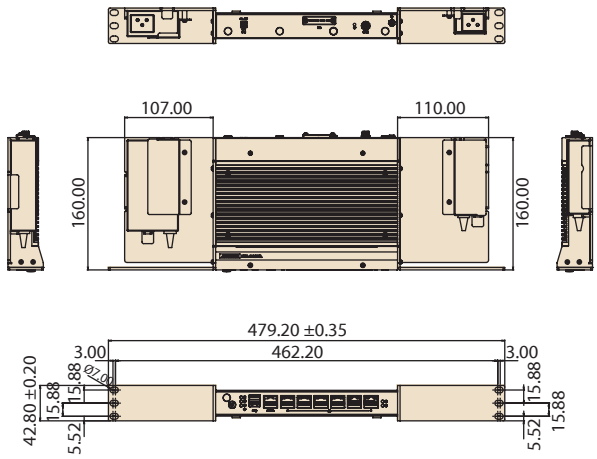
Dimensions

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-1112VCL-2CA1S	Intel Atom® C3338 1.5GHz	2	0 ~ 40 °C	6 x RJ45	1 x RJ45	2	1	1	1	NA	NA	1	Optional	Optional	36W
FWA-1112VCL-4CA1S	Intel Atom® C3558 2.2GHz	4	0 ~ 40 °C	4 x RJ45 + 2 x 10G/1G SFP+	1 x RJ45	2	1	1	1	NA	NA	1	Optional	Optional	36W
FWA-1112VCL-8CA1S	Intel Atom® C3758 2.2GHz	8	0 ~ 40 °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	96PSA-A36W12W7-5
PoE Adaptor	A/D 100-240V 65W 54V C14 4PIN MINI HOUSING 62368	XFWA-FSP065-DWAN3
Mounting Kit	Wall Mount Kit	FWA-1112VCL-WMK
	Rack Mount Kit	FWA-1112VCL-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