

# FWA-1010VC

## Tabletop Network Appliance with Intel® Atom™ Processor C2000 for universal vCPE and SD-WAN

**NEW**



### Features

- Compliant with FCC and CE RED for deployable WWAN and WLAN function in North America and Europe
- Industry-standard, off-the-shelf x86 server platform for remote office, and small to medium enterprise installations
- Dual 1GbE RJ45 or SFP auto-negotiation link for WAN connectivity
- Enhanced design to optimize system performance by integrated offload technology
- Optional 3G, 4G LTE and WiFi connectivity for flexible deployment
- Tested and Certified by key software vendors for universal vE-CPE and SD-WAN roll-out

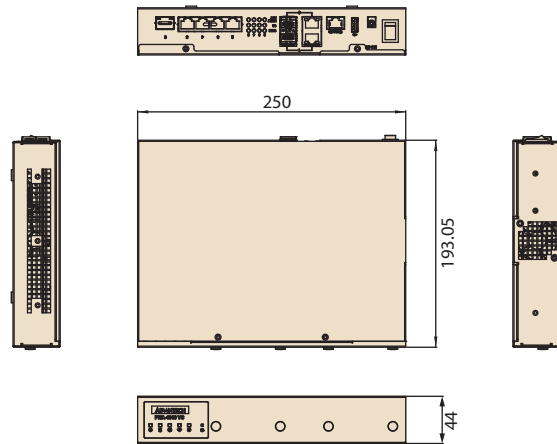


### Specifications

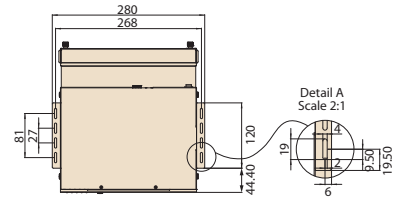
	FWA-1010VC-4CA2S	FWA-1010VC-8CA2S	FWA-1010VCR-8CA2S
Form Factor	Tabletop		
Processor System <sup>Note</sup>	Processor	Intel® Atom™ Processor C2558	Intel® Atom™ Processor C2758
	Core Number	4	8
	Frequency	2.4GHz	
	L2 Cache	2MB	4MB
	BIOS	AMI EFI 64Mbit	
Virtualization	VT-x		
Memory	Technology	DDR3/DDR3L 1600MHz	
	Max. Capacity	32GB (16GB per socket)	
	Socket	2 x 240-pin UDIMM	
	ECC Support	ECC or Non-ECC	
Networking	Controller	3 x Marvell 88E1112 1 x Marvell 88E6141	
	1GbE	2 x 1000/100/10BASE-T RJ45 or SFP auto-negotiation link by Marvell 88E1112 1 x 1000/100/10BASE-T RJ45 by Marvell 88E1112 4 x 1000/100/10BASE-T RJ45 by Marvell 88E6141 with 1GbE uplink to CPU	
		1 x Full-size Mini PCIe with SIM holder for 3G/4G LTE (WWAN) module with 2 x antenna holes	Sierra/MC7455 with Antenna; Sierra/MC7430 is optional by project support
Expansion	Mini PCIe		
	SIM socket	1 x Mini SIM type (25 x 15 mm)	
	M.2	1 x M.2 2232 for WiFi (WLAN) module with 2 x antenna holes	
Storage	2.5" SSD	None	1 x 2.5" SATA3.0 Gen3 SSD bracket (Max 9.5mm height only)
	M.2	1 x SATA3.0 Gen3 M.2 2280 (option 2x M.2 2242)	
I/O	Console port	1	
	USB2.0	1 x USB2.0 Type A host port	
	LED Indicator	Power, HDD, 3G/4G LTE, WiFi, SW defined status	
	Others	1 x Power Switch 1 x Software definable button with LED indicator	
	TPM1.2	Optional support by TPM module: 98923260H0E	
Power Supply	Power Type	DC	
	Watts	60W	
	Input	100 V ~ 240 V	
	Connector	DC Jack	
	Power Adaptor	12V 5A, 60W external adaptor	
Environment	Operating Temperature (air flow 0.7 m/sec)	0 ~ 40 °C (32 ~ 104 °F)	
	Non-operating Temperature	-20 ~ 80 °C (-4 ~ 167 °F)	
	Humidity	95% @ 40 °C (non-condensing)	
	Vibration Resistance	with SSD: 0.3 Grms, IEC 60068-2-64, 5-500Hz, 1hr/axis	
Cooling	Shock Protection	with SSD: 10G, IEC-60068-2-27, half sine, 11ms duration	
		1 x system FAN with smart FAN for maximum 37.5dB(A)	
Mechanical	Construction	Iron	
	Mounting	Support desktop/Rack/Wall-mounting options	
	Dimensions (W x H x D)	250 x 44 x 190.4 mm (9.8" x 1.7" x 7.5")	
	Weight	2.3 Kg (4.8lb)	
OS support	Linux (CentOS, Red Hat, Ubuntu)		
Advantech S/W Packages	QuickStart Linux Image (Ubuntu based reference BSP)	afwu, Imsensors, flashrom, WiFi drivers, QMI Wireless drivers, Intel® DPKD, Intel® QAT, DUI (Offline Diagnostics)	
	Individual Package	DUI (Offline Diagnostics)	
Certification	without RF	EMC	BSMI: CNS13438 ; CE: EN55032/24 ClassB ; KCC: KN55032/35 ; RCM: AS/NZS CISPR32
		Safety	UL, CB, BIS, BSMI, CCC
	with RF	EMC	CE: ETSI EN 301 908-1 V11.1.1: 2016 ; ETSI EN 300 328 V2.1.1: 2016 ; ETSI EN 301 893 V2.1.1: 2017 ; EN 62311: 2008; EN301489-1-17-52 ; EN301908-2 ; EN301908-13
		Safety	FCC: Part22H & 24E & 27B, C & L & 90S ; §15.247, Cat: DTS ; §15.407 UL: 60950-1 (2nd Edition), CAN/CSA C22.2 No. 60950-1-07 (2nd Edition) LVD: EN 60950-1 CB: IEC 60950-1:2005 (2nd Edition) + Am 1:2009 + Am 2:2013, EN 60950-1:2006 /A11:2009/A1:2010/A12:2011/ A2:2013
	RoHS	RoHS, REACH, WEEE	

Note: Please contact your Advantech representative for other Atom C2000 processor support

## Dimensions

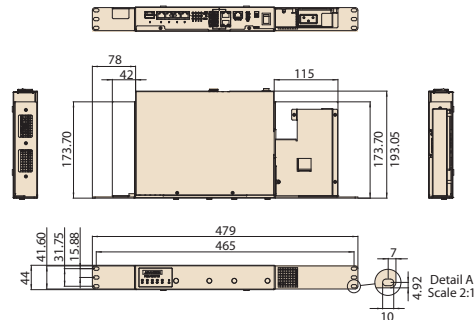


### Wall-Mount

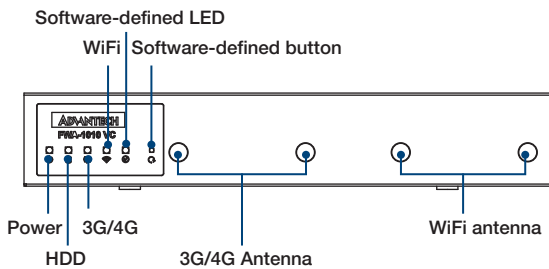


Unit: mm

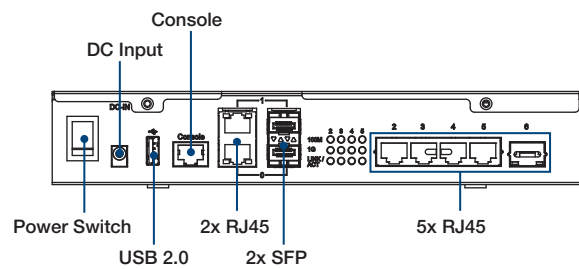
### Rack-Mount



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



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



## Ordering Information

Ordering Information Part No.	CPU	CPU Core count	Socket/ Bracket			Full Size MiniPCle	Mini SIM	RJ45	1GbE SFP	DC Input	Wireless Kit				
			DDR3	2.5" SSD	M.2 2280						M.2 2232 (PCIe/USB)	WLAN Module (EWM-W162M)	WLAN Antenna	WWAN Module (MC7455)	WWAN Antenna
FWA-1010VC-4CA2S	Atom C2558	4	2	N/A	1	1	1	5	2	1	N/A	N/A	N/A	N/A	
FWA-1010VC-8CA2S	Atom C2758	8	2	1	1	1	1	5	2	1	N/A	N/A	N/A	N/A	
FWA-1010VCR-8CA2S	Atom C2758	8	2	1	1	N/A	N/A	1	5	2	1	1	2	1	2

## Packing List

Part Number	Description
193000688-01	M.2 SSD screws (2pcs)
XADN-FSP060-DHAN3	ADP A/D 100-240V 60W 12V C14 DC PLUG

## Optional Accessories

Part Number	Description
1700018950	Console cable
98923260H0E	TPM1.2 Module
FWA-1010VC-RMT	Rack-mount kit
FWA-1010VC-WMT	Wall-mount kit
FWA-1010VC-WWAN <sup>Note</sup>	LTE 4G module kit for NA and EU (Sierra/MC7455 with antenna)
FWA-1010VC-WWAN2 <sup>Note</sup>	LTE 4G module kit for APAC (Sierra/MC7430 with antenna)
FWA-1010VC-WLAN	WiFi module kit (Advantech/EWM-W162M with antenna)
1702002600	Power cord 3P 180 cm, USA
1702002605	Power cord 3P 180 cm, Europe
1702031801	Power cord 3P 180 cm, UK
1700000237	Power cord 3P 180 cm, JP
1700009652	Power cord 3P 180 cm, China
1700025855-01	Power cord 3P 180 cm, India
1700025112-01	Power cord 3P 180 cm, Brazil
1700022938-01	Power cord 3P 300 cm, Korea
1700020098	Power cord 3P 180cm, Australia
1700024848-01	Power cord 3P 180cm, Taiwan

Note: Please contact your Advantech representative for details