

FWA-1081

Tabletop Network Appliance with AMD Ryzen™ V3000 Processors



Features

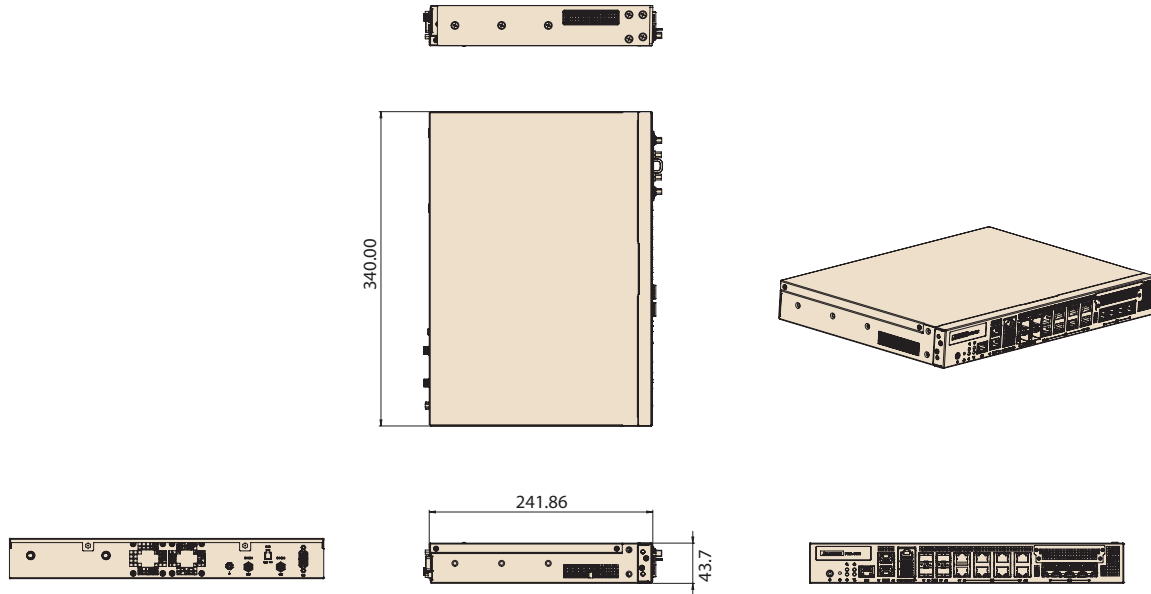
- Ideal compact size for mainstream SMB (Small to Medium Businesses) office deployment
- Features up to 8 cores/16 threads with single AMD Ryzen V3000 Processors for robust performance
- Supports up to 2 x DDR5 SODIMM modules to enhance computing capability
- Offers multiple Ethernet interfaces: 10GbE, 2.5GbE, and 1GbE for versatile connectivity options
- Easily upgradable with 5G/4G LTE wireless connectivity for remote and mobile applications
- Remote system management via Advantech IPMI 2.0 with Redfish support, including capabilities for remote firmware upgrades and system firmware backup

Specifications

System P/N		FWA-1081L-4CA1S	FWA-1081F-8CA1S
Form Factor		Tabletop	
Processor System	Processor	AMD Ryzen™ V3C44	AMD Ryzen™ V3C48
	Core Count	4	8
	Base Frequency	3.5 GHz	3.3 GHz
	BIOS	AMI UEFI	
Memory	Technology	DDR5	
	Max. Capacity	64GB	
	Socket	2 x 262-pin DIMM	
	ECC Support	ECC SODIMM	
Networking	Controller	2 x 10GbE SFP+ (via SoC)	2 x 10GbE SFP+ (via X710)
		8 x 1GbE RJ45 (via i350)	2 x 10GbE SFP+ (via SoC)
		2 x 2.5GbE RJ45 for MGMT (via i226)	12 x 1GbE RJ45 (via i350, with 2 pairs of LAN bypass)
	1GbE	8 x 1GbE RJ45	2 x 2.5GbE RJ45 for MGMT (via i226)
	2.5GbE	2 x 2.5GbE RJ45	12 x 1GbE RJ45
	10GbE	2 x 10GbE SFP+	2 x 2.5GbE RJ45
LAN Bypass	N/A	4 x 10GbE SFP+	
Expansion	M.2 (Except SSD)	1 x M.2 2230 E-Key for WiFi module (Optional)	Two pair of LAN bypass
		1 x M.2 3042/3052 B-key for 4G/5G LTE module with 2 x antenna holes(Optional)	
IPMI		IPMI 2.0 and Redfish compliant	
Storage		1 x dedicated 1GbE LAN for IPMI port	
I/O	M.2 (SSD)	2 x M.2 2280 M-key for SATA 3.0 SSD	
	Console	1 x RJ45 type console	
	USB	2 x USB 3.0 ports	
	LED Indicator	1 x SW-defined LED (Amber/Green)	
		1 x Alert LED by IPMI (Amber)	
	Video	1 x ID LED by IPMI (Blue)	
	Button	1 x VGA port	
Others	1 x Power button with LED indication (Green)		
TPM		1 x SW-defined button	
		1 x RJ45 type console	
Power Supply		Support by TPM 2.0 module (Optional)	
		External power adapter (Optional for dual adapters)	
		150 W	
		Input	100-240 V ~ 2.5A 50-60 Hz
Environment		Connector	AC 3pin plug
		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)	5-500 Hz, 0.3 Grms, 3 axes, 1 hr/per axis
Cooling		Shock Protection (Operation)	10 G, 11 ms
			2 x System fans with smart fan feature
Mechanical		Metallic Material	SGCC
		Mounting	Optional rackmount kit
		Dimensions (W x H x D)	340 x 241.86 x 43.7mm (13.39" x 9.52" x 1.72")
		Weight (G.W.)	3.5 kg (7.7 lb)
OS Support		Linux OS	
Advantech S/W Packages		Only UEFI FW and UEFI aware Linux OS	
		ALBPCU	
		APOECU	
		ipmitool	
		Server iManager (Linux base)	
		-Health Guard	
Certification	EMC/Safety	-Diagnostic Framework	
		-Network device identifier (NDI)	
		CE, FCC, CB, UL, CCC	

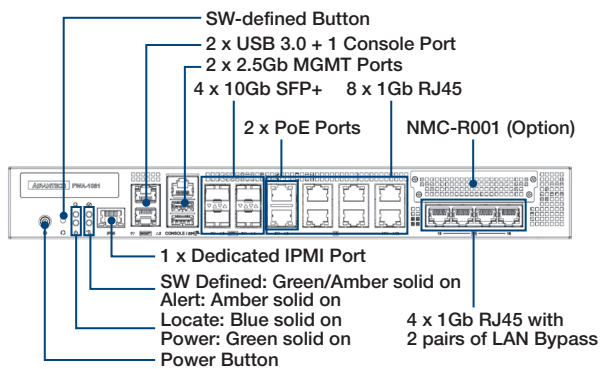
Dimensions

Unit: mm

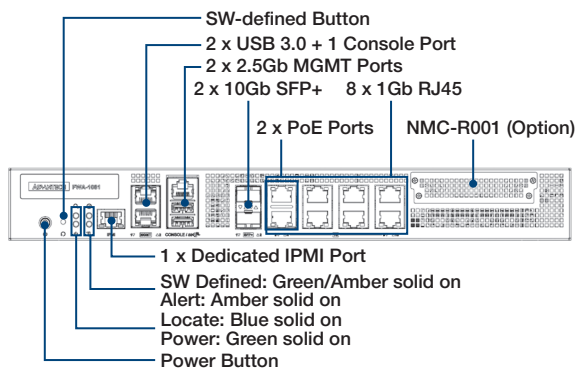


Front Panel External I/O Mechanical Layout/Drawing

FWA-1081F-8CA1S

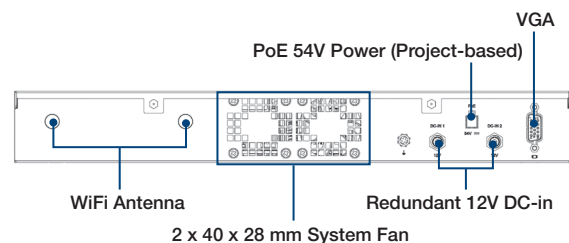


FWA-1081L-4CA1S

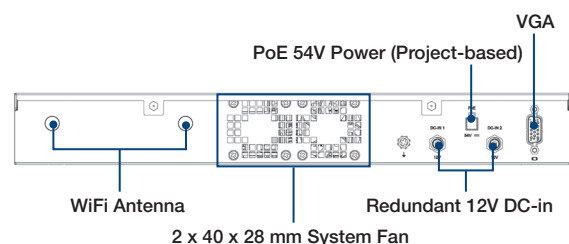


Rear Panel External I/O Mechanical Layout/Drawing

FWA-1081F-8CA1S



FWA-1081L-4CA1S



Ordering Information

Part Number	Processor	DDR5	Storage Bay	USB3.0	IPMI Port	Console Port	LAN Port			System Fan	PSU	POE
							1G RJ45	2.5G RJ45	10G SFP+			
FWA-1081F-8CA1S	AMD Ryzen™ V3C48 processors	2	2	2	1	1	12	2	4	2	1	Optional
FWA-1081L-4CA1S	AMD Ryzen™ V3C44 processors	2	2	2	1	1	8	2	2	2	1	Optional

Packing List

Part Number	Description
1700020691-01	M CABLE D-SUB 9P(F)/RJ45 220cm

Accessories

Part Number	Description
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
FWA-1013-RMK	Rackmount Kit for 1 PSU support
FWA-1013-150WPSU	150W power adapter
1700027334-01	USB for RJ45 console cable, 190cm
PCA-TPMSPI-00A1	TPM 2.0 Module, SPI
NMC-R014T-12A1	RF module