

FWA-1081

Tabletop Network Appliance with AMD Ryzen™ V3000 Processors



Features

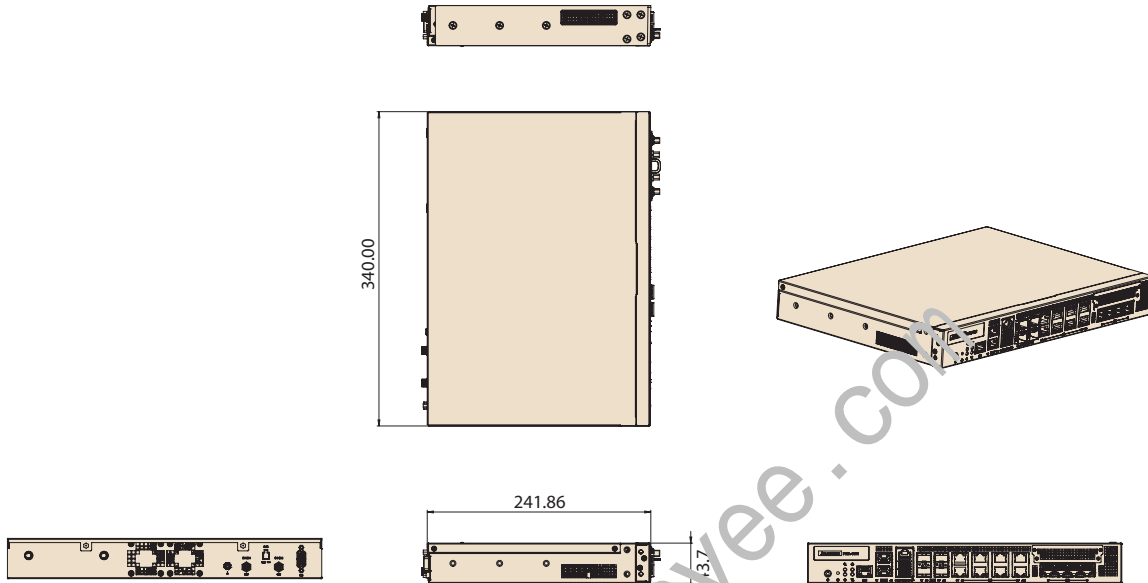
- Ideal compact size for mainstream SMB (Small to Medium Businesses) office deployment
- Features up to 8 cores/16 threads with single AMD Ryzen V3000 Processors for robust performance
- Supports up to 2 x DDR5 SODIMM modules to enhance computing capability
- Offers multiple Ethernet interfaces: 10GbE, 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

| | | FWA-1081L-4CA1S | FWA-1081F-8CA1S |
|------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 i226) 8 x 1GbE RJ45 (via i226) 2 x 2.5GbE RJ45 for MGMT (via i226) | 2 x 10GbE SFP+ (via X710) 2 x 10GbE SFP+ (via SoC) 12 x 1GbE RJ45 (via i350, with 2 pairs of LAN bypass) 2 x 2.5GbE RJ45 for MGMT (via i226) |
| | 1GbE | 8 x 1GbE RJ45 | 12 x 1GbE RJ45 |
| | 2.5GbE | 2 x 2.5GbE RJ45 | 2 x 2.5GbE RJ45 |
| | 10GbE | 2 x 10GbE SFP+ | 4 x 10GbE SFP+ |
| | LAN Bypass | N/A | Two pair of LAN bypass |
| | Expansion | M.2 (Except SSD) | 1 x M.2 2230 E-Key for WiFi module (Optional) 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 1 x dedicated 1GbE LAN for IPMI port | |
| Storage | M.2 (SSD) | 2 x M.2 2280 M-key for SATA 3.0 SSD | |
| I/O | 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) 1 x ID LED by IPMI (Blue) | |
| | Video | 1 x VGA port | |
| | Button | 1 x Power button with LED indication (Green) 1 x SW-defined button | |
| | Others | 1 x RJ45 type console | |
| | TPM | | Support by TPM 2.0 module (Optional) |
| Power Supply | Power Type | External power adapter (Optional for dual adapters) | |
| | Watts | 150 W | |
| | Input | 100-240 V ~ 2.5A 50-60 Hz | |
| | 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) | 5-500 Hz, 0.3 Grms, 3 axes, 1 hr/per axis | |
| | Shock Protection (Operation) | 10 G, 11 ms | |
| Cooling | | 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 Only UEFI FW and UEFI aware Linux OS | |
| Advantech S/W Packages | | ALBPCU APOECU ipmitool Server iManager (Linux base) -Health Guard -Diagnostic Framework -Network device identifier (NDI) | |
| Certification | EMC/Safety | CE, FCC, CB, UL, CCC | |

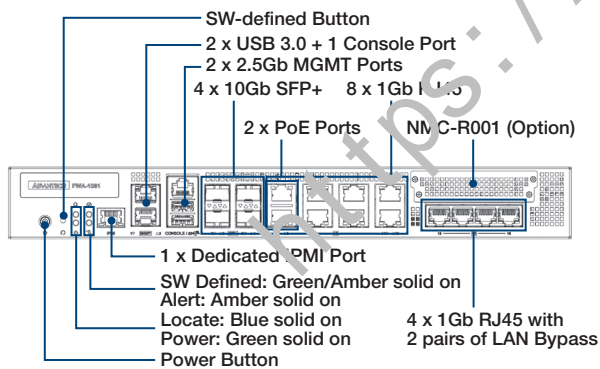
Dimensions

Unit: mm

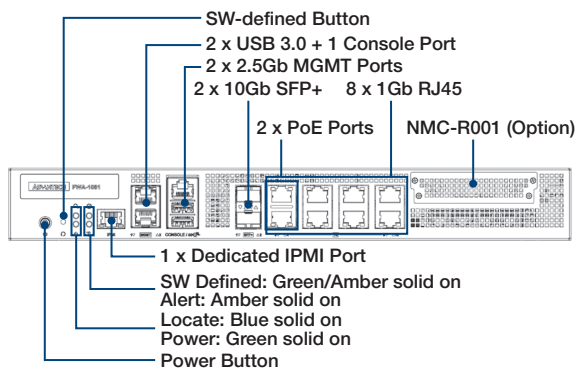


Front Panel External I/O Mechanical Layout/Drawing

FWA-1081F-8CA1S

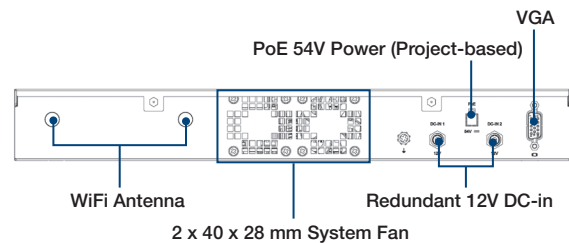


FWA-1081L-4CA1S

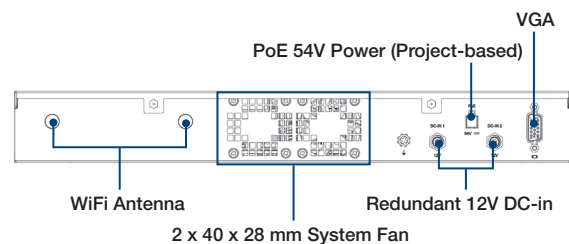


Rear Panel External I/O Mechanical Layout/Drawing

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 140 cm, USA |
| 1702002605 | Power cord 3P 180 cm, Europe |
| 1702031801 | Power cord 3P 130 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-1013-150W-FCU | 150W power adapter |
| 1700027334-01 | USB for RJ45 console cable, 190cm |
| PCA-TPM2.0-10A1 | TPM 2.0 Module, SPI |
| NMC-PJ11T-12A1 | RF module |