FWA-3034

1U Network Appliance with 12th/13th/14th Gen Intel[®] Core Processors for Network Security and Management



Features

- Processor hybrid design combining Performance-cores with Efficient-cores supporting up to 24 cores/32 threads for outstanding multi threaded performance
- 1GbE/2.5GbE/10GbE multi Ethernet interface
- Expandable via Advantech Network Mezzanine Card (NMC) with up to 100GbE bandwidth for additional demand of Ethernet ports
- 4G and WiFi 6 support for wireless network (5G by project base)
- Advantech IPMI 2.0 platform management with Redfish option with supported features such as redundant firmwares, automatic rollback, remote upgrade, and remote configuration

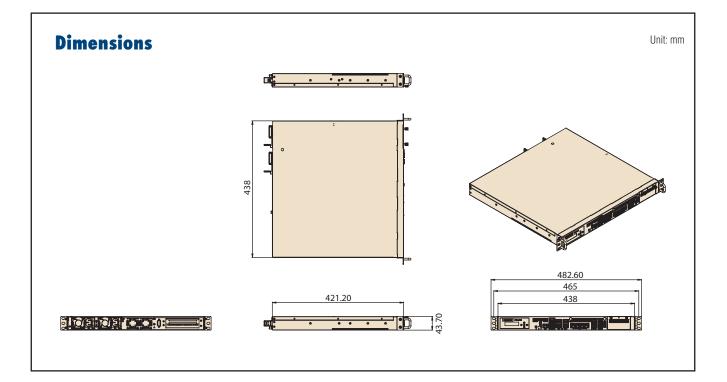
Specifications

| System P/N | | FWA-3034R-00A1R | FWA-3034H-00A1S |
|------------------|------------------|---|-------------------|
| Form Factor | | 10 | |
| | Processor | 12th/13th/14th Generation Intel [®] Core™ processors | |
| Processor System | Core Count | 24 | |
| | Base Frequency | 3.40 GHz (5.0 GHz Turbo frequency) | |
| | Chipset | R680E | H610E |
| | BIOS | AMI UEFI | |
| Virtualization | | Intel [®] VT-x, VT-d, SR-IOV | |
| | Technology | DDR5 | |
| Momony | Max. Capacity | 64 GB (32 GB per slot) | |
| Memory | Socket | 2 x 288-pin DIMM | |
| | ECC Support | ECC/Non-ECC UDIMM | Non-ECC UDIMM |
| | | 2 x Intel i210-IS | |
| | Controller | 8 x Intel i226-LM | 8 x Intel i226-LM |
| | | 1 x Intel X710-BM2 | |
| Networking | 1GbE | 2 x 1GbE SFP (2 x 1GbE RJ45 by project base) | N/A |
| | 2.5GbE | 8 x 2.5GbE RJ45 | |
| | 10GbE | 2 x 10GbE SFP+ | N/A |
| | LAN Bypass | Two pair of LAN bypass | |
| | PCIe x8 | 1 (Gen 4, FH/HL) | N/A |
| Expansion Slot | NMC | 1 (100G via single slot) | |
| | M.2 (Except SSD) | 1 x M.2 B-key 3052/3042 for 4G module (5G by project base) or E-key 2230 for WiFi module | N/A |
| | SIM Socket | 1 | N/A |
| IPMI | | IPMI 2.0 and Redfish compliant 1x dedicated 1GbE LAN for IPMI port | N/A |
| Storage | 2.5" Bay | 2 x SATA HDD/SATA SSD | |
| | M.2 (SSD) | 1 x 2280 M.2 M-key slot for SATA SSD or PCIe x4 Gen4 NVMe SSD | N/A |
| I/O | Console | 1 x RJ45 type console | |
| | USB | 2 x USB 3.2 Gen 2x1 ports | |
| | LED Indicator | 1 x SW-defined LED (Amber/Green) 1 x Alert LED by IPMI (Amber) 1 x ID LED by IPMI (Blue) 1 x Power (Green) | |
| | Display | 1 x VGA port | |
| | Button | 1 x Power button 1 x SW-defined button | |
| | Others | 1 x RJ45 type console | |
| TPM | | Support by TPM 2.0 module (Optional) | |
| LCD Module | | 21 columns x 4 lines text display | |

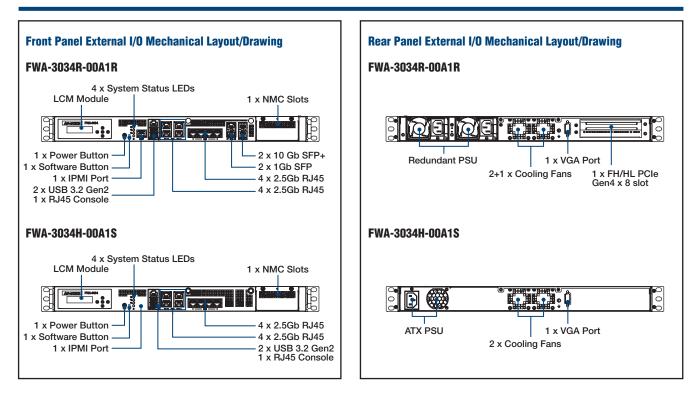
Specifications (Cont.)

Note:

The sequence of installing on FWA-3034R-00A1R: Plug in NMC card -> Raiser card. Please do read and follow the instruction with the user manual when you purchase any PCIe card and NMC card. S/W development with Alder Lake/Rapter Lake-S platform please refer to https://www.intel.com/content/www/us/en/developer/articles/technical/hybrid-architecture.html



FWA-3034



Ordering Information

| Part Number | Processor | DDR5 | PCH | QAT | NMC Slot | PCIe Slot | Storage Bay | USB 3.0 | IPMI Port | Console Port | LAN Port | | | System Fan | PSU |
|-----------------|--|------|-------|-----|-------------|--------------|----------------|------------|--------------|-----------------|-----------|--------|----------|---------------|-----|
| | | | | | | | | | | | 2.5G RJ45 | 1G SFP | 10G SFP+ | | |
| FWA-3034R-00A1R | Single socket for 12 th /13 th /14 th Gen Intel [®] Core™ processor | 2 | R680E | N/A | 1 | 1 | 2 | 2 | 1 | 1 | 8 | 2 | 2 | 3 | 2 |
| FWA-3034H-00A1S | Single socket for 12 th /13 th /14 th Gen Intel [®] Core™ processor | 2 | H610E | N/A | 1 | N/A | 2 | 2 | N/A | 1 | 8 | 0 | 0 | 2 | 1 |

Packing List

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

Optional 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 |
| 968AE00073 | 22" Rail Kit for 438mm chassis (TL:381mm) |
| FWA-3050-800WPSU | 800W DC Power kit |
| 1700027334-01 | USB for RJ45 console cable, 190cm |
| PCA-TPMSPI-00A1 | TPM 2.0 Module by SPI for CPU cards, A101-1 |