

# FWS-2370

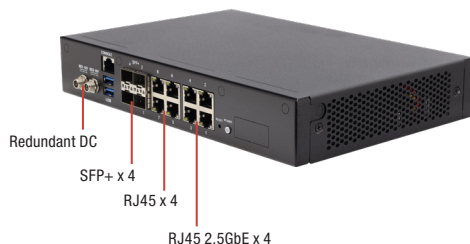
Network Appliance with Intel Atom® Processor C Series/Intel Atom® Processor P Series



Front View



Rear View



## Features

- Intel Atom® Processor C Series/Intel Atom® Processor P Series
- Onboard eMMC 32GB, up to 128GB
- DDR4 SODIMM x 2, up to 64GB ECC/Non-ECC
- Intel® Ethernet Controller I226-V 2.5GbE x 4, Marvell® Alaska® 88E1543 GbE x 4, 10G SFP+ x 4
- M.2 2230 E-Key for Wi-Fi (Co-lay Mini Card Slot x 1 (Half-size, PCIe))
- M.2 3042/3052 B-Key for 5G/LTE (Co-lay Mini Card Slot with push-pin SIM Slot x 1 (Full-size, PCIe + USB 3.0 + USB 2.0))
- TPM Support (Optional)



### Internal/ Expansion Interface

|                      |                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PCIe Slot            | —                                                                                                                                                                                                                                                                                                                                                  |
| Mini-PCIe Slot       | M.2 2230 E-Key x 1 (PCIe) for Wi-Fi<br>co-lay half-size Mini Card Slot x 1 (PCIe)<br>M.2 3052 B-Key x 1 (USB 2.0) for 5G/LTE<br>co-lay full-size Mini Card Slot with push-pin SIM Slot x 1 (PCIe + USB 2.0)<br>M.2 3052 B-Key x 1 (USB 3.0 + USB 2.0) for 5G/LTE<br>co-lay full-size Mini Card Slot with push-pin SIM Slot x 1 (USB 3.0 + USB 2.0) |
| Keyboard and Mouse   | —                                                                                                                                                                                                                                                                                                                                                  |
| USB                  | USB 3.0 x 2 (shared with PCIe Slot for PoE, default USB 2.0 x 2)                                                                                                                                                                                                                                                                                   |
| <b>Miscellaneous</b> |                                                                                                                                                                                                                                                                                                                                                    |
| RTC                  | Internal RTC                                                                                                                                                                                                                                                                                                                                       |
| Watchdog Timer       | 1~255 steps by software programmable                                                                                                                                                                                                                                                                                                               |
| Software Button      | GPIO Programmable push button x 1                                                                                                                                                                                                                                                                                                                  |
| TPM                  | TPM 2.0                                                                                                                                                                                                                                                                                                                                            |
| GPIO                 | Reserve Internal Pin Header 8-bit Digital I/O Interface (4-in/4-out)                                                                                                                                                                                                                                                                               |
| Fan                  | Smart Fan x 1 (Default),<br>Internal Smart Fan Pin Header x 1 (Reserve)                                                                                                                                                                                                                                                                            |
| MTBF (Hours)         | TBD                                                                                                                                                                                                                                                                                                                                                |
| Color                | Black                                                                                                                                                                                                                                                                                                                                              |

### Environmental Parameters and Dimension

|                       |                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------|
| Power Consumption     | Dual in 12V 60W Adapter (w/o POE)<br>Dual in 12V 90W Adapter (w/ POE)                                                |
| Operating Temperature | 32°F ~ 104°F (0°C ~ 40°C)                                                                                            |
| Storage Temperature   | -4°F ~ 140°F (-20°C ~ 60°C)                                                                                          |
| Operating Humidity    | 10%~80% relative humidity, non-condensing                                                                            |
| Storage Humidity      | 10%~80% @40°C; non-condensing                                                                                        |
| Vibration             | 0.5 Grms/ 5 ~ 500Hz / operation (mSATA)<br>1.5 Grms/ 5 ~ 500Hz / non-operation                                       |
| Shock                 | 10 G peak acceleration (11 m sec. duration), operation<br>20 G peak acceleration (11 m sec. duration), non-operation |
| Dimension (W x D x H) | 10.2" x 7" x 1.7" (260mm x 178mm x 44mm)                                                                             |

### I/O

|             |                                                                                                                                                                                                                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Front Panel | Optional type c console x 1<br>Micro SIM socket x 2<br>Main board LAN LED x 24<br>Optional module LAN LED via cable x 4<br>Bypass LED x 2<br>Storage LED x 1<br>Status LED x 1<br>Power LED x 2<br>Antenna hole x 3                                                                       |
| Rear Panel  | DC Power Input Connector Lockable x 2<br>RJ45 console x 1<br>USB 3.0 Port x 2<br>Power LED x 2<br>10G SFP+ x 4<br>1G Marvell RJ45 Port x 4<br>2.5G RJ45 Port x 4<br>SW reset button x 1<br>Power button x 1<br>Antenna hole x 4<br>Optional 2.5G LAN module x 2 (optional with POE af/at) |

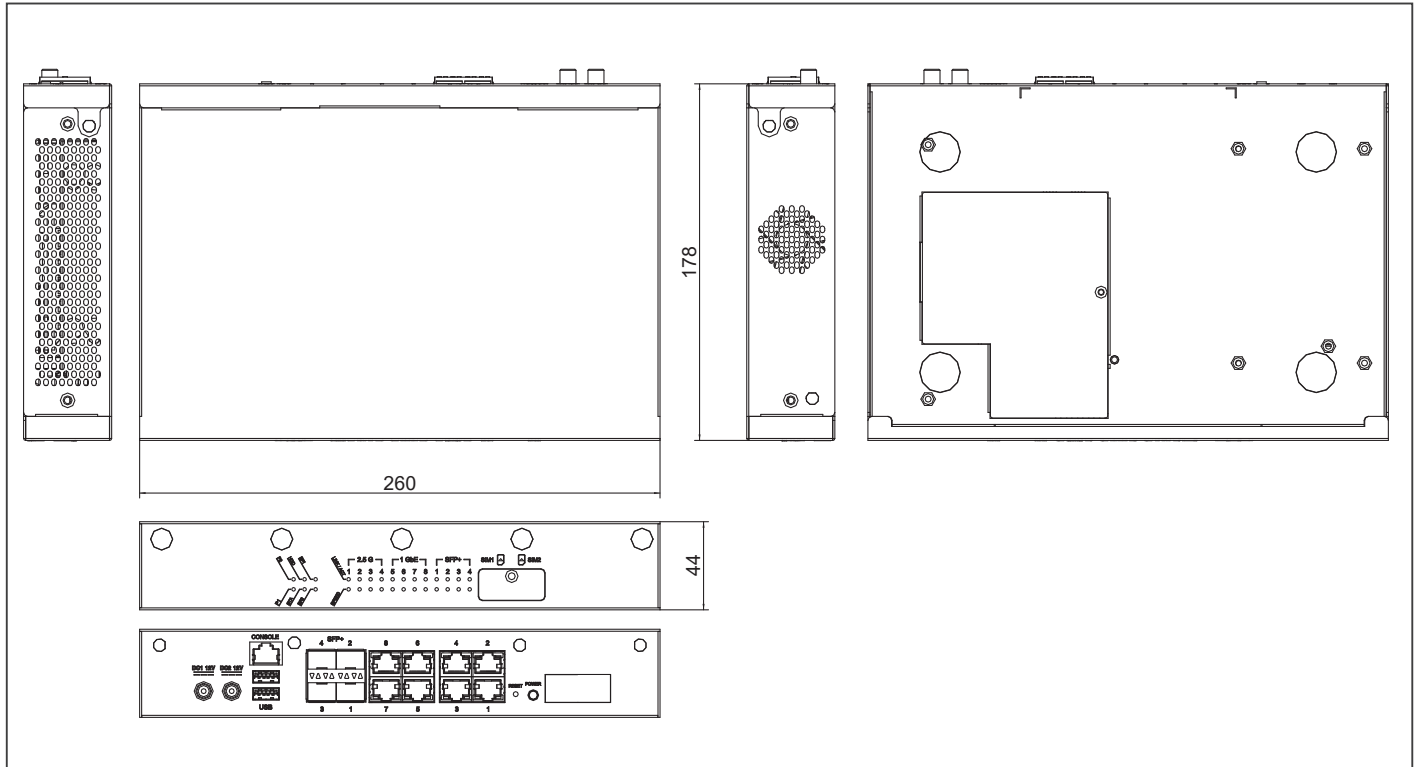
## Specifications

|                     |                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------|
| <b>System</b>       |                                                                                                       |
| Form Factor         | Desktop Network Appliance                                                                             |
| Processor           | Intel Atom® Processor C Series/Intel Atom® Processor P Series<br>Default: Intel Atom® Processor C5315 |
| Chipset             | SoC                                                                                                   |
| System Memory       | DDR4 SODIMM socket x 2, up to ECC/Non-ECC 64GB                                                        |
| <b>Network</b>      |                                                                                                       |
| Ethernet            | Intel® Ethernet Controller I226-V 2.5GbE x 4<br>Marvell® Alaska® 88E1543 GbE x 4<br>10G SFP+ x 4      |
| Bypass              | 2 Pair                                                                                                |
| <b>Display</b>      |                                                                                                       |
| Graphics Controller | —                                                                                                     |
| Connector           | —                                                                                                     |
| <b>Storage</b>      |                                                                                                       |
| HDD                 | SATA 6Gb/s x 2 (co-lay M.2 2242 M-Key x 1)                                                            |
| CF/CFast/mSATA      | Default eMMC 32GB, support up to 128GB                                                                |



## Dimension

Unit: mm



## Ordering Information

| Part Number          | CPU                         | Memory                 | Bypass  | Mini-Card Slot                                                              | Storage                 | LAN                                                                                          | USB         | Console     | System Fan | TPM      | Mounting | Power |
|----------------------|-----------------------------|------------------------|---------|-----------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------------|-------------|-------------|------------|----------|----------|-------|
| FWS-2370-E12-A10-000 | Intel Atom® Processor C5315 | DDR4 SODIMM socket x 2 | 2 pairs | M.2 colay Mini-card slot x 3 ; [x4] PCIe connector slot x 1 (PCIe [x1] x 2) | SATA port x 2 eMMC 32GB | Intel® Ethernet Controller I226-V 2.5GbE x 4, Marvell® Alaska® 88E1543 GbE x 4, 10G SFP+ x 4 | USB 3.0 x 2 | Console x 1 | Fan x1     | Optional | Desktop  | DC    |

## Packing List

- Power Adapter x 1
- FWS-2370

## Optional Accessories

- **1700091805**  
Console Cable
- **170X000799**  
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- **170X000800**  
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **170X000815**  
Power Cord, 3P-250V/10A, 180D, 1.8M, China, YP-03/YC-12
- **170X000803**  
Power Cord, 3P-125V/7A, 1.8M, PSE, YP12/YC-12