PRELIMINARY

FWS-2290

Network Appliance with Intel® Processor N-series

Features

- Intel® Processor N-series, 2~8 cores
- Onboard LPDDR5 4GB, up to 16GB
- Intel® Ethernet Controller I226-V, 2.5GbE x 4
- M.2 3052 B-Key for 5G (Co-lay Mini-Card slot with Push-pin SIM for 4G LTE/Wi-Fi)
- M.2 2230 E-Key (Co–lay Mini-Card slot for Wi-Fi)

CE FC

Specifications

System	
Form Factor	Desktop Network Appliance
Processor	Intel® Processor N-series, 2~8 cores
Chipset	SoC
System Memory	On board 4G LPDDR5 up to 16GB
Network	
Ethernet	Intel® Ethernet Controller I226-V, 2.5GbE x 4
Bypass	1 Pair
Display	
Graphics Controller	Intel® UHD Graphics
Connector	HDMI x 1 Optional
Storage	
HDD	—
CF/CFast/mSATA	32G eMMC SATA III port x 1
Internal/ Expansion Interface	
PCIe Slot	—
Mini-PCIe Slot	M.2 (B Key 3052) for 5G (Co-lay Mini-Card slot-2 with Push-pin SIM for 4G LTE/Wifi reserve 3042 screw hold for 4G LTE M.2 (E Key 2230) (Co–lay Mini-Card-1 slot for WiFi)
Keyboard and Mouse	—
USB	USB 3.1 Type A x2 (one only have 2.0 ,share to M.2 for LTE)
Miscellaneous	
RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	GPIO Programmable push button x 1
TPM	(TPM SLB9670 VQ2.0 FW7.85 Optional)
GPIO	(4 bits input, 4bits output optional)
Fan	Fan x1
MTBF (Hours)	TBD
Color	Black
Environmental Parameters and Dimension	
Power Consumption	1 x 12V DC Power Input Connector Lockable, 40W power adapter
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) 1.5 Grms/ 5 ~ 500Hz / non-operation
Shock	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non-operation
Dimension (W x D x H)	6.5" x 3.62" x 1.57" (165mm x 92mm x 40mm)
I/O	
Front Panel	3 x LEDs (Power, Status, Storage) 1 x Micro-SIM 2 x Antenna Hole
Rear Panel	1 x DC Power Input Connector Lockable 1 x Power Button 2 x USB2.0 Ports 4 x 1GbE RJ45 Ports 1 x RJ-45 console 1 x Reset Button 2 x Antenna Hole

Packing List

- Power Adapter x 1
- FWS-2290

Optional Accessories

- **1700091805**
  Console Cable
- **1702031802**
  Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- **1702031803**
  Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **170203180B**
  Power Cord, 3P-250V/10A, 180D, 1.8M, China, YP-03/YC-12
- **170203180E**
  Power Cord, 3P-125V/7A, 1.8M, PSE, YP12/YC-12

Ordering Information

Part Number	CPU	Memory	Bypass	Mini-Card Slot	Storage	LAN	USB	Console	System Fan	TPM	Display	Mounting	Power
FWS-2290	TBD	Onboard 4G LPDDR5	—	Mini Card Socket x1 M.2 E 2230 key Socket x1	SATA port x1 32G eMMC	Intel® Ethernet Controller I226-V, 2.5GbE x 4	USB 3.0 x 2	Console x 1	Fan x1	Optional	HDMI x 1	Desktop	DC

Note: All specifications are subject to change without notice.