Breakout Session

How AEWIN Use Intel Technologies for Edge Solution

Rachel Feng, AEWIN

AEWIN

Product Line

Network Appliance

Rackmount
NIC Module, Crypto Accelerator

Module
NIC, QAT, PoE...

Desktop / Din-rail
4G/5G/Wifi6, Fanless

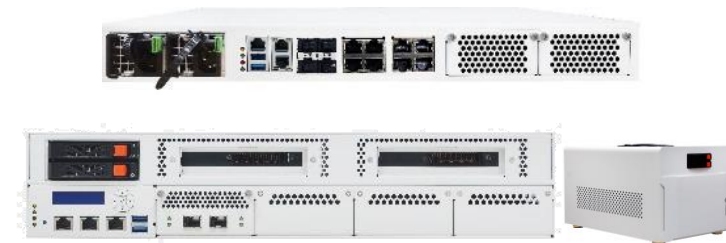

Security, ADC, SD-WAN

Server

General Purpose
Hyper Converged, Storage, PCIe at Rear

Option   Option

Proxy, Cache, Logging, Mail, Backup, VDI

Edge Computing
Front I/O, Short Depth, GPU/FPGA Supports

Edge AI, 5G RAN, MEC, AIoT

End to End Networking Product Portfolio

5G & Cloud

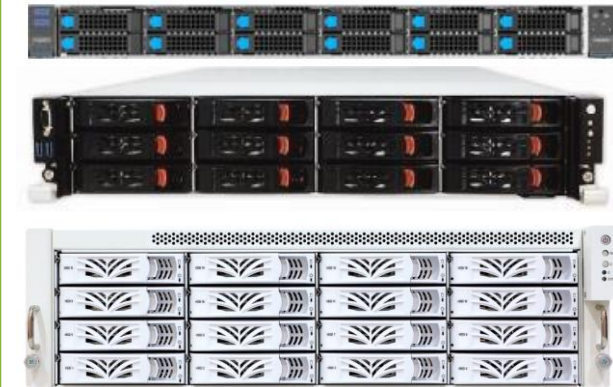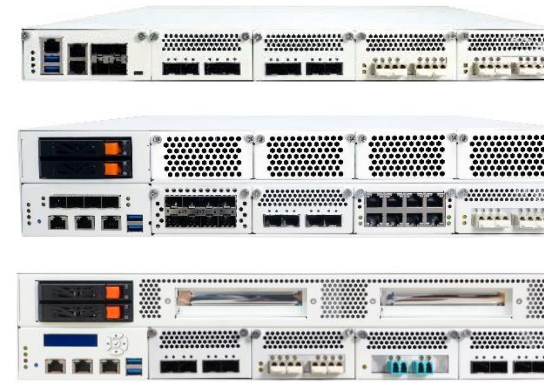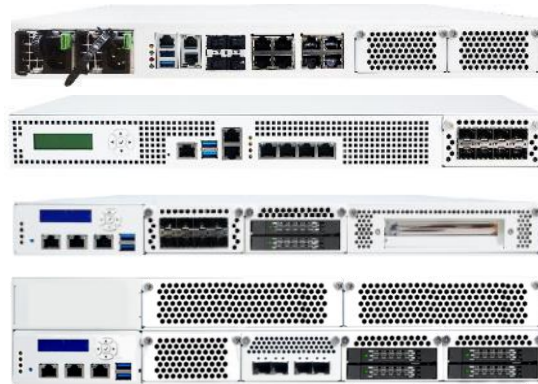| On Premise uCPE, SD-WAN, Connections...	Access Network / Edge vRAN, MEC, Cloud Gaming, AR/VR, Low Latency...	Central Office / Core vEPC, vIMS, vBNG, vCMTS, vCDN...	DC / Public Cloud General Purpose, Compute & Storage
intel. ATOM	intel. XEON	intel. XEON	intel. XEON
Intel® ATOM® Fanless option	Intel® Xeon® Scalable Processors, <600mm Intel® Xeon® D, <450mm	Intel® Xeon® Scalable Processors, <600mm	Intel® Xeon® Scalable Processors, <800mm

Network Security & Management

Desktop	1U/2U Edge Computing	1U/2U Edge Computing	1U/2U~ Server
SD-WAN, Firewall, UTM, DPI, IPS, IDS, ADC, Load Balancer...			Proxy, Cache, SIEM...

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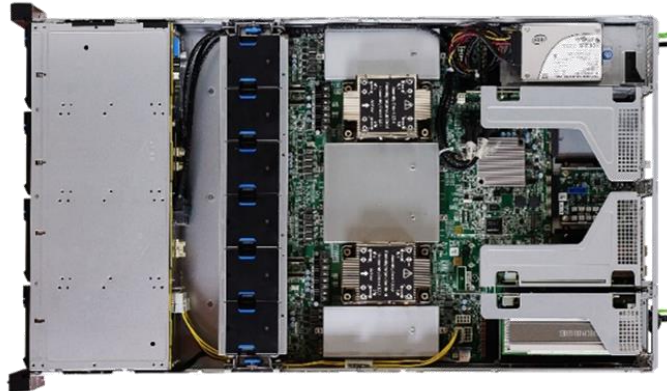
AEWIN *Networking Mastery*

3rd Generation Intel® Xeon® Scalable Processors Product Line
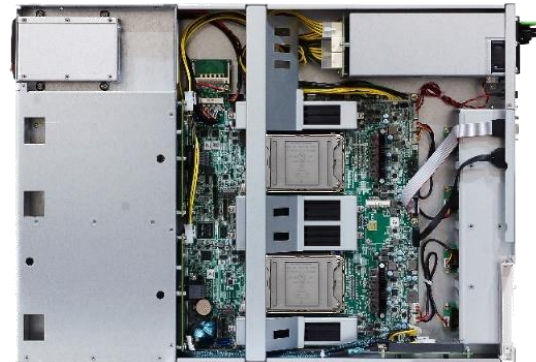

BIS-5221
General Purpose
2U, 12x Drive, 10x PCIe
(Dual Socket)

SCB-1932
Edge Computing
2U, 8x Front Expansion
(Dual Socket)

SCB-1931
Edge Computing
1U, 4x Front Expansion
(Single Socket)

IS-5101
Single Socket CRB
ATX, 5x PCIe
(Single Socket)

3rd Generation Intel® Xeon® Scalable Processors New Features Supported

Intel® Optane™ Persistent Memory (PMem) 200 Series

Secure Boot Module
- based on Intel® Platform Firmware Resilience (Intel® PFR)

PCIe Gen4 Device
(NVMe, Accelerator card)

~200G NIC Module - based on Intel® Ethernet Controller E810 PCIe Gen4 Ethernet Controller
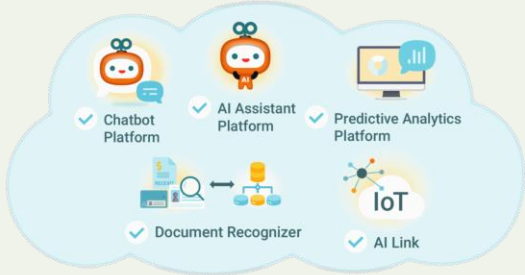
8x 10GbE

4x 25GbE

1/2x 100GbE

x16 lanes

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Networking Mastery

Edge AI Use Case Smart City, Smart Office

Segment	Smart City	Smart Hospital	Smart Office
Application	VAS (multi-obj, tracking) TMS (volume, violation ticket) LPDR (license plate)	Area Access Control, Movement, Density	NLP Document Recognition, ChatBot
Edge Compute	Real time analytics	On premise analytics	Quick batch process
System			
Customer			

AEWIN x Smart City

Video analytics and deep learning engine on AEWIN Edge AI servers

Monitor Output / Console

Traffic Control Monitoring

SCB-1932

intel. XEON

Features

- Support 3rd Gen Intel Xeon Scalable Processor(Ice Lake-SP), Socket P+ 4189pin
- Support Max 2TB DDR4 2933/3200MHz & Optane DC PersistentMemory
- Max support 8x PCIe Gen4 x8 slots for Network Expansion Module
- Support BMC/IPMI& hardware One-Key Bypass function

Video Stream or Camera

The application uses video analytics and deep learning to detect accidents and abnormal activities to enhance the safety of the production line. Using AI to do Traffic Control & Area Access Control through AEWIN solutions.

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UTM   ADC   MEC   NGFW

Networking Mastery

AEWIN x Smart Hospital

Local AI processing keeps patient data confidential

Accelerated AI in medical biometric monitoring. Medical monitoring has strict regulation regarding privacy. Local accelerated processing enhances local AI compute capacity for real-time monitoring and processing of patient biometrics.
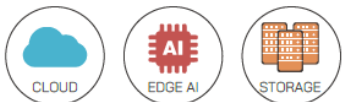
Monitoring and Alarm

BIS-5101

Features

- 4.5U Rack-mountable Workstation System
- Single 3rd Gen Intel® Xeon® Scalable Processors up to 205W TDP
- 8x DDR4 RDIMM/LRDIMM Memory slots
- Support up to 2x dual-slot+ GPUs or 5x single-slot GPUs
- Up to 2x 80PLUS Platinum Certified 1200W CRPS

intel. XEON

Biometric Monitors

Bluetooth Hub

Example

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CLOUD | EDGE AI | STORAGE

AEWIN x Smart Office

Accelerated AI & NLP processing

AI assisted document recognition solutions on AEWIN hardware. With the brilliant augmentation of existing technology with AI. AEWIN provides miniaturized systems to enable deployment anywhere.

Output displav

BIS-5101

Features

- 4.5U Rack-mountable Workstation System
- Single 3rd Gen Intel® Xeon® Scalable Processors up to 205W TDP
- 8x DDR4 RDIMM/LRDIMM Memory slots
- Support up to 2x dual-slot+ GPUs or 5x single-slot GPUs
- Up to 2x 80PLUS Platinum Certified 1200W CRPS

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Documents

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THANK YOU !!

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Thank you
for watching!