



Product Brief



AEWIN verifies SCB-1830 for Intel® Select Solutions for uCPE – CentOS Plus configuration

uCPE is a simple concept, which is placing computing equipment right on customer's premise. However, this simple concept has huge impact on network infrastructure design and being used by enterprises to securely interconnect remote offices with SD-WAN deployed on uCPE. Keeping with the trend of software defined functions, a host of networking appliances can be virtualized and hosted right on the uCPE, helping administrators to easily remote manage and deploy virtualized network functions.

To meet the modern demand of agile and flexible networking equipment, AEWIN has verified the SCB-1830 against Intel Select Solutions Plus configurations' stringent requirements. By bundling our standard off the shelf hardware with Intel specified software stack, customers will be able to deploy and setup quickly. Performance tuning for specific workloads has already been done, so customers can focus on deploying their infrastructure instead of testing and evaluating hardware and software configurations. Intel Select Solutions offers a quick path to turning investment into working for you.

AEWIN SCB-1830 Intel Select Solutions for uCPE – CentOS Plus configuration

The SCB-1830 is a 1U rack-mount network appliance that is verified for Intel Select Solutions for uCPE – CentOS Plus configuration. Featuring Intel® Xeon D-2187NT processor with 16 cores, the SCB-1830 is designed for performance, energy efficiency, and longevity that is ideal for edge and network service applications. Multiple Network Expansion Modules of various port and speed configurations can be added to augment the onboard 4x 10GbE SFP+ and 10x 1G RJ45 ports. In addition, a PCIe Gen3 x8 standard PCIe slot is available for additional accessories. Intel® QuickAssist Technology (Intel® QAT) is available to accelerate cryptographic and compression workloads. Storage option includes 2x 2.5" SATA drives and 1x mSATA module. Together, this configuration passes the stringent performance requirements for Intel® Select Solutions verification.

Component	Spec	Quantity
CPU	Xeon® D-2187NT	1x
Memory	16GB DDR4-2666MHz RDIMM	4x
Network	10GbE LoM (SOC)	4x
Intel® QAT	Integrated Intel® QAT (SOC)	1x
Storage	512GB SATA SSD	1x

Software suite is anchored on CentOS, a popular Linux distribution based on the Red Hat codebase with 10 years of security updates. This provides a low maintenance platform that is reliable and secure. KVM/QEMU provides a virtualization platform to host virtualized network functions (VNF). Data Plane Development Kit (DPDK) is here as well to provide user space route to bypass kernel polling-mode driver to allow enhanced packet handling performance. These form the foundation to build the ideal network stack with various VNFs designed around your specific network requirements.

AEWIN SCB-1830 is an ideal platform to host your VNFs. It is our standard off the shelf design with many upgrade options for customizing the system for your specific requirements. The Integrated Intel® QAT function will offer acceleration of cryptographic algorithms and compression workloads. The available 2x expansion bays support all the standards AEWIN network expansion modules for additional networking capability, or optionally support 2x T4 or FPGA HHL accelerators for specific workloads. Additionally, a single standard full height PCIe Gen3 x16 slot option is available for PCIe cards requiring the full x16 bandwidth. A rearward facing FHL PCIe x8 slot offers additional expansion capacity. With optional 50°C ambient temperature support, SCB-1830 can be easily deployed to any location for edge and VNF applications.

Product Link:

<https://www.aewin.com/products/scb-1830-ucpe/>



About AEWIN

AEWIN Technologies, a member of Qisda Business Group, provides smartly designed networking platforms for customers of any scale. With 20 years of experience building high performance network forwarding platforms, AEWIN has extensive knowledge in building secure and reliable systems trusted by some of the top Network Security experts as the foundation of their network security solutions. We offer products featuring the full range of Intel processors for wide range of applications. AEWIN can be your hardware partner with flexible design and customization options to meet your stringent requirements.

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