



DATA SHEET

Celona Edge Appliances

Pre-provisioned, high-performance appliances running the Celona Edge OS Software

The Celona Edge Appliances are pre-packaged COTS hardware, that runs the Celona Edge OS - a highly redundant, scalable, cloud-native network operating system that delivers the required control and data plane services for private wireless networks. These services include the enterprise optimized cellular wireless packet core, private spectrum management, end-to-end QoS orchestration, centralized ZTNA with SIM based authentication & authorization and integration into Enterprise L2/L3 network & security infrastructure.



Ready for on-premises deployments

Celona Edge acts as the data plane for the private wireless network and is managed via cloud-hosted Celona Orchestrator. It shares network telemetry data with Celona Orchestrator and enforces network access policies on a per application, device group and network segment basis.

Highly available and scalable

As a cloud-native network OS, Celona Edge automatically clusters across multiple nodes and provides enterprise grade scalability and reliability. Data plane leverages intel DPDK architecture on standard x86 server hardware without the operational complexity to deliver high performance.

Deployed as overlay

Seamlessly integrates with the existing enterprise IT network architectures.

Plug-and-play experience

Remote provisioned via Celona Orchestrator for installation and ongoing configuration.

Key Performance Specifications

	Express Node	Enterprise Node	Enterprise Cluster
Recommended Deployment	Branch or Small Offices	Large Branch or Medium Campuses	Large Campus
Recommended Number of APs	Up to 40 APs	Up to 125 APs Expandable by clustering with more Enterprise Nodes	Up to 300 APs Expandable beyond 3 nodes with additional Enterprise Nodes

Hardware Specifications

	Express Node	Enterprise Node
Network Interfaces	Two (2) 1G Base-T Two (2) 10G Base-T	Nine (9) 1G Base-T Two (2) 10G Base-T Two (2) 10G SFP+
Buttons	Power On/Off, System Reset	Power On/Off, System Reset
LEDs	Two (2) Network Activity LEDs Fan Fail/System Overheat LED HDD Activity LED Power Status LED	Network Activity LED Hard Drive Activity LED System Information LED Power Status LED
Power Supply (AC Power)	1U 200W Multi-output Power Supply Gold Level w/20pin	500W High-Efficiency Power Supply w/PMBus 1.2, 12C, and PFC

Physical and Environmental Specifications

	Express Node	Enterprise Node
Form Factor	9.8" Mini 1U chassis	1U Rackmount
Dimensions (H x W x D)	1.7 x 17.2 x 9.8 (inches) 4.32 x 43.69 x 24.89 (cm)	1.7 x 17.2 x 15 (inches) 4.32 x 43.69 x 38.1 (cm)
Gross Weight	10 lbs 4.54 kg	25 lbs 11.34 kg
Operating Temperature	0° to 40° C	0° to 45° C
Storage Temperature	-40° to 70° C	-40° to 70° C
Humidity	8% to 90%	8% to 90%

Ordering Information

Celona Edge appliances are purchased separately from the Celona Private Wireless subscription, which includes access to Celona indoor and outdoor access points and Celona platform software.

CNEDGEEXP

Celona Edge Express appliance provisioned with Celona Edge software to work with the Celona Orchestrator, supporting up to 40 access points.

CNEDGEENT

Celona Edge Enterprise appliance provisioned with Celona Edge software to work with the Celona Orchestrator, supporting up to 125 access points.

CNEDGEENTCLUSTER

3 Celona Edge Enterprise appliances as a cluster provisioned with Celona Edge software for high availability and scale. Allows for addition of Celona Edge Enterprise appliances to further scale. Supports up to 300 access points.