celona

DATA SHEET

Celona Edge Appliances

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

The Celona Edge Appliances are based on Intel's latest x86 architecture that run the Celona Edge software to deliver the required control and data plane services for a private mobile network. These services include the enterprise optimized cellular wireless packet core, domain proxy functions for private spectrum options such as CBRS in the United States, centralized encryption with SIM based authentication for cellular wireless clients.

Ready for on-premises deployments

Celona Edge acts as the data plane for the private LTE 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 without the operational complexity

High data plane performance

Leverages intel DPDK architecture on standard x86 server hardware

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

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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
Network Interfaces	Two (2) 1G Base-T Two (2) 10G Base-T
Buttons	Power On/Off, System Reset
LEDs	Two (2) Network Activity LEDs Fan Fail/System Overheat LED HDD Activity LED Power Status LED
Power Supply (AC Power)	1U 200W Multi-output Power Supply Gold Level w/20pin

	Enterprise Node
Network Interfaces	Nine (9) 1G Base-T Two (2) 10G Base-T Two (2) 10G SFP+
Buttons	Power On/Off, System Reset
LEDs	Network Activity LED Hard Drive Activity LED System Information LED Power Status LED
Power Supply (AC Power)	500W High-Effiency Power Supply w/PMBus 1.2, 12C, and PFC

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Physical and Environmental Specifications

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

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

Ordering Information

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

CN-EDGE-EXP	Celona Edge Express Node provisioned with Celona Edge software and managed by the Celona Orchestrator, supporting up to 40 APs
CN-EDGE-ENT	Celona Edge Enterprise Node provisioned with Celona Edge software and managed by the Celona Orchestrator, supporting up to 125 APs
CN-EDGE-ENT-CLUSTER	3 Celona Edge Enterprise Nodes provisioned with Celona Edge, managed by the Celona Orchestrator and supporting up to 300 APs

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