

DATA SHEET

CELONA EDGE APPLIANCES

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



Aruba is partnering with Celona to deliver CBRS-based private LTE networks to the enterprise.

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 LTE packet core, domain proxy functions for CBRS spectrum in the United States, centralized encryption with SIM based authentication of wireless clients connected to the Celona access points (APs).

Celona Edge software 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.

KEY BENEFITS

Deployed as overlay: Seamlessly integrates with the existing enterprise IT network architectures

Plug-and-play experience: Remote provisioned via Celona Orchestrator for the initial install and ongoing configuration

High data plane performance: Leverages Intel DPDK architecture on standard x86 server hardware

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

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



PHYSICAL 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"	1.7" x 17.2" x 15"
Gross Weight	10 lbs	25 lbs

ENVIRONMENTAL		
	Express Node	Enterprise Node
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%

POWER SUPPLY		
	Express Node	Enterprise Node
Overview	1U 200W Multi-output power supply Gold level w/20pin	500W High-Efficiency Power Supply w/PMBus 1.2, I2C, and PFC

ORDERING INFO

Celona Edge Appliances are purchased separately from the Celona Private LTE subscription, which includes access to Celona CBRS LTE access points and Celona software.

- R7C44A Celona Edge Express Node provisioned with Celona Edge software and managed by the Celona Orchestrator, supporting up to 40 APs (Celona Part Number: CN-EDGE-EXP)
- R7C45A Celona Edge Enterprise Node provisioned with Celona Edge software and managed by the Celona Orchestrator, supporting up to 125 APs (Celona part number: CN-EDGE-ENT)
- R7C46A 3 Celona Edge Enterprise Nodes provisioned with Celona Edge software and managed by the Celona Orchestrator, supporting up to 300 APs (Celona part number: CN-EDGE-CLUSTER)



Celona, the enterprise 5G company, is focused on accelerating the adoption of business-critical apps on enterprise wireless and helping organizations implement new generation of digital business initiatives. Taking advantage of the Citizens Broadband Radio Service (CBRS) in the United States, Celona's solution architecture is designed to automate deployment of cellular wireless technology by enterprise organizations and their technology partners. For more information, please visit [celona.io](https://www.celona.io) and follow Celona on Twitter @celonaio.

<https://www.celona.io/>



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