



Next-Gen Edge Infrastructure: Power your Edge Potential with Charles Industries

Amphenol Charles Industries offers secure, self-contained enclosure solutions that are designed to meet the growing demand for Edge Computing Sites. Eliminating the cost of a dedicated building structure, our enclosures leverage Charles' expertise in thermal management to keep IT equipment at optimal operational temperatures, and structural analysis such as wind or seismic loads, reducing the risk of failure in extreme environments. Flexible and scalable, our enclosures are ready to service an ever evolving infrastructure that depends on IoT and interconnected networks for efficient business operation and day-to-day living.



The EDGE Advantage

By 2025, *the global number of Internet of Things (IoT) devices is projected to reach 75.44 billion, marking a fivefold increase from 2015. The exponential increase of data-rich devices exposes the shortcomings of traditional cloud computing models, which rely on centralized data centers for data collection and analysis, and are prone to issues such as high latency, bandwidth limitations, and security concerns.

In response to these challenges, edge computing has emerged as a distributed computing model that addresses these issues by bringing processing power closer to the source of data generation. Unlike relying solely on centralized clouds, edge computing enables data processing and analysis to occur at the Edge of the Network, in proximity to where the data is consumed. Advantages of Edge Computation include:

- Accelerated and more streamlined data processing
- Enhanced insights, improved decision-making, and superior user experiences
- Minimized data transmission to centralized cloud servers
- Reduced bandwidth consumption and faster response times
- Heightened security and privacy through local data processing and analysis



The Charles Advantage

Amphenol Charles Industries provides a versatile range of products for edge computing sites, including rugged enclosures with integrated power distribution solutions, cooling, security, monitoring, and management solutions. We deliver customized solutions to specific edge computing locations with robust enclosures for various challenging environments.

For comprehensive edge computing site needs, Amphenol Charles Industries offers expert assistance in identifying and supplying your ideal Edge node housing solutions.

*Sources: Statista

Amphenol Charles Solutions



Walk-In Cabinet (WIC)

- Lighter weight alternative to concrete shelters
- Ability for remote site installation with limited maintenance
- Can be configured with multiple thermal systems
- Energy savings over current concrete shelters and huts
- 10" X 10" footprint, can be customized
- Multiple sizes available



Battery Backup Cabinets CUBE BB Series

- Provides controlled environment for batteries
- Includes venting for battery outgassing
- Meets seismic requirements
- Individual battery string disconnects
- Includes all battery wiring



Modular Cabinets CUBE Modular Series

- Ultimate flexibility for outdoor edge deployments
- Multiple standard bays can be mixed and matched
- Configuration of up to 4 bays
- Additional bays can be integrated on-site later
- Variety of power and thermal management options



Site Support Cabinets CUBE SS Series

- Robust protection for outdoor deployments
- Available in 7, 15, 23, 28, 31 or 35 RU
- Available with 23" rails
- Supports a variety of battery configurations, including VRLA or NiCd
- Front and rear access doors
- Seismic Zone 4 rated, NEMA 3R, GR-487-CORE



Pad Mount Cabinets CUBE PM Series

- Available in 16-44 RU units
- Available with either 19" or 23" rails
- Optional integrated power
- Multiple thermal management options available
- Options for remote monitoring
- Compliant with GR-487-CORE



Indoor Cabinets & Battery Racks

- Sturdy 10-gauge welded steel construction
- Supports optional power plant
- Fully factory wired
- Seismic Zone 4 rated, GR-487-CORE



Pole Mount Enclosures CUBE SC Series

- Rack space for mounting high-power MEC servers
- Optional integrated power
- Multiple thermal management options available
- Self-contained, secure low profile unit
- Integrated with power and thermal management
- Additional low-profile SC enclosures available
- Compliant with GR-487-CORE



Wall/Pole Mount Cabinets CUBE RL Series

- Available to up to 20 RU enclosures
- Provide superior environmental protection
- Available accessories are pole mount kits and slide-out trays
- Meets NEMA 4X / NEMA 3 depending on version

About Amphenol Charles Industries

Founded in 1968, Amphenol Charles Industries is a manufacturing and technology company based in Schaumburg, Illinois, with North American manufacturing centers in the US and Mexico. For over 55 years, we have offered a comprehensive line of active, passive, metallic, and non-metallic environmental enclosure solutions for communications and power distribution applications serving the Wireless, Telecommunications, Broadband Cable, Utility, EV Charging, and Edge Compute markets worldwide.

In April 2019, Charles was acquired by Amphenol Corporation, a world leader in antenna, optics, and interconnect solutions, with over 91,000 employees worldwide serving 70 countries. Today, Charles operates as an Amphenol Company and is leveraging Amphenol's global resources and innovative technologies to create new, bundled solutions for our customers.

We offer the following:

- Cabinet & Enclosures
- Concealment & Pole Solutions
- Pedestals & Housings
- Fiber Optic Solutions
- Below Grade Enclosures

Protecting the connections that bring people together



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