Frame-Level Design and Integration Services

UNICOM Engineering offers OEM customers world-class frame-level and rack-mount design and integration services. Our technology integration centers located in Massachusetts, Texas and Galway, Ireland deliver complete design, verification, staging, assembly, test and shipping capabilities. All of our integration services are scalable to support a variety of volume deployments and high-mix architectures. We assist customers with the initial frame design, create efficient build and verification plans, manage and prototype all modifications and ensure compliance with required standards.

Proven Integration Expertise

We draw upon our proven integration expertise and highly controlled business processes to accelerate all phases of development, evaluation, production and deployment. Successful organizations use UNICOM Engineering as their integration partner to ensure their assemblies meet international compliance and regulatory standards. As carrier-grade integration specialists, UNICOM Engineering offers telecommunications equipment developers complete NEBS Level 3 certification capabilities.

Teamwork Partnership

UNICOM Engineering's experienced integration team includes engineers, technicians and QA professionals who use state-of-the-art process controls, automation systems and analytical tools to build, inspect and transport every assembly. Our engineering staff has extensive experience with enterprise network equipment and carrier-grade telecommunications systems.

Quality at Every Stage

At UNICOM Engineering, we work hard to guarantee that every product is properly designed, configured to exact specifications and functionally faultless before pack-out and shipment to customers. Our workflow control processes ensure that quality and accuracy are built into every product we manufacture.

UNICOM Engineering's integration services are scalable to support a variety of volume deployments and high-mix architectures.

ISO 9001 and TL 9000 Certified

UNICOM Engineering's commitment to quality workmanship is governed by our compliance to ISO 9001 and TL 9000. UNICOM Engineering's entire staff is trained and certified under these standards to ensure consistent, high-quality production and on-time delivery of goods and services. We adhere to these processes to assure customers of the highest quality workmanship and compliance with international industry regulations. We also contract with third-party auditors to guarantee that UNICOM Engineering takes a proactive and highly organized approach to maintaining best-in-class business processes. UNICOM Engineering maintains TL 9000 compliance for the telecommunications quality management system as we design, produce, deliver, install and maintain our products and services. TL 9000 compliance is maintained specifically for our customers who require telecommunications quality standards.

UNICOM® Engineering, Inc.
A Division of UNICOM Global

Frame Hardware Capabilities

- Up to 47U frame / rack enclosures, with doors and panels
- Power Distribution Panels (PDP)
- Servers, routers, blade servers

- Keyboard, Video and Mouse (KVM)
- Uninterruptible Power Supplies (UPS)
- Fan / cooling units
- Intra-frame / rack cabling and cable labeling

- Custom rails and brackets
- Custom branding and labeling artwork

Base Frame / Cabinet Design Features

- **Key features:** strength and protection
- **Doors:** steel, multi-hinge, 3-point latching
- **Construction:** welded Cold Rolled Steels (CRS) internal frame
- **Applications:** telecom, test and measurement, general electronics, Commercial Off-The-Shelf (COTS)
- **Mounting heights:** up to 47U (1U=1.75")

- **Mounting:** supports side-by-side mounting / ganging
- **Width:** 400–1200 mm (~16–47"), meets 19" & 23" mount standards
- **Depth:** 300-1000 mm (~12-40")
- **National Electrical Manufacturers Association (NEMA) protection:** 2, 12
- **Ingress Protection (IP) rating:** 40-55

- **Load-carry capacity (Static):** 1,500 Lbs / 680Kg
- **Network Equipment-Building System (NEBS):** designed to meet Telcordia GR-63-CORE for seismic Zone 4 specification
- **Military standard:** designed to meet MIL-Spec
- **Compliancy:** Restriction of Hazardous Substances Directive (RoHS)

UNICOM Engineering's Domain Expertise

- **Procurement and Staging:** By procuring and staging all necessary equipment prior to the start of a frame build, UNICOM Engineering reduces implementation time and minimizes logistics issues. Our program managers help facilitate this process, expedite any in-process changes and ensure all third-party and consigned materials are available.

- **System Configuration:** In addition to component assembly and frame integration, we assure proper installation and configuration of BIOS, operating systems, middleware and application software on each component platform.

- **QA and System Testing:** Prior to shipping, UNICOM Engineering performs a comprehensive series of software and functional tests to ensure the system is fully operational and meets the required standards.

- **Documentation:** Frames are shipped with complete user installation guides, including documentation of the hardware and software and complete system configuration/set-up manuals. Control of design and assembly documentation is rigorously governed to ensure timely updates as changes are implemented.

- **Technical Support:** We offer 24-hour technical support services for all integrated frames, including a help desk and online assistance. Support programs can be contracted to include any or all of the frame components, including third-party equipment and software.

- **Warranty and Repair Services:** UNICOM Engineering provides extended warranty and repair options for frame integration customers. Our depot repair facility is staffed with engineers and technicians who are certified in the technologies we integrate.

- **Program and Project Management:** All customers are assigned a program management team to ensure your project meets and exceeds expectations. By using proven program and project management methodologies, we help reduce build errors and costly deployment delays.

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