SOLUTION DESIGN

Accelerate time-to-market by leveraging the industry's
largest selection of purpose-built platforms and appliances

UNICOM Engineering is best known for its physical, virtual and cloud-based platforms, appliance solutions and frame-level designs. We provide the broadest range of products backed by value-add services to deliver lifecycle-managed solutions. With a comprehensive approach to solution design and application deployment, UNICOM Engineering uses standard technologies to build platforms that meet specific application requirements, accelerate time to market and reduce total cost of ownership. Customers can leverage our in-house design expertise and integrate best-in-class technologies to optimize performance and reliability.

Accelerate time-to-market by leveraging our OEM server design engineering services and broad selection of purpose-built platforms and appliances

Platform Design   Custom Designs   Lifecycle Management   Branding   Compliance Services

Platform Design

UNICOM Engineering has the largest selection of purpose-built, turnkey platforms and appliances in the industry. Our engineers help select the best-fit platform and right-size it for their application, whether it's a robust enterprise security appliance or a highly integrated carrier grade rackmount system. We specialize in designing standard 32- and 64-bit server technologies on Linux or Windows OS, multi-core and multi-processing environments, Advanced Telecom Computing Architecture (ATCA), NEBS and high-reliability server designs for an array of mission-critical applications.

Rackmount

NEBS

Storage Subsystems

ATCA

UNICOM Engineering has the largest selection of purpose-built,
turnkey platforms and appliances in the industry.

We foster best-in-class technology partnerships and drive forward-looking roadmaps to match next-generation designs, applications and ecosystem needs. Throughout the design process, we consider all aspects of the solution lifecycle, including branding, component life, energy efficiency, regulatory requirements, drivers, BIOS and OS conflicts. We design for greater availability, predictability and repeatability – attributes aimed at reducing support and maintenance costs. We strive to eliminate unnecessary hardware and operating software and we lock-down these systems to reduce the footprint, improve performance and eliminate vulnerability exposure. When designing frame-level telecom systems, we use COTS hardware to design custom solutions that meet precise carrier class application needs.

Technology Partners

Partnerships

We foster best-in-class partnerships and provide next-generation roadmaps that meet forward-looking design, application and ecosystem needs.
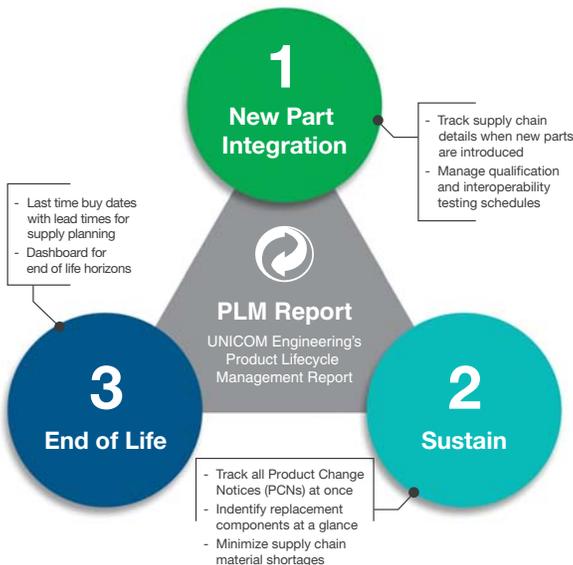
Custom Designs

UNICOM Engineering provides comprehensive design, engineering and manufacturing services. When a standard platform cannot serve as the basis for a solution, we design custom systems to exact specifications. From customer-branded chassis to customized motherboards, I/O ports, cooling systems, expansion capabilities, power conservation and virtualized systems – custom designs are UNICOM Engineering's specialty. Our team of engineers has the expertise in CAD design, simulation modeling, software development and virtualization to reduce risk and prevent issues from occurring downstream.

UNICOM Engineering offers specific expertise in high-density solutions that maximize real-estate, reduce power consumption and overcome thermal constraints. Our green designs for enterprise and carrier class communications are considered high-density rackmount industry benchmarks. UNICOM Engineering's approach to custom solution design ensures a lower total cost of ownership for you and your end customer.

Lifecycle Management

UNICOM Engineering's design services assess a customer's total solution to optimize and streamline all aspects of the deployment from solution design through global support. In addition, with visibility into partner's roadmaps, we design with long life parts, motherboards and chassis to minimize development costs. When parts become obsolete, forcing a re-design, UNICOM Engineering engineers work to ensure that the highest levels of backward compatibility are designed into the system through regression testing. This approach also ensures customers receive the highest benefit in maintaining control over hard costs that occur in the supply chain and soft costs that occur in developing, deploying and maintaining solutions around the world.

1
New Part Integration

- Track supply chain details when new parts are introduced
- Manage qualification and interoperability testing schedules

- Last time buy dates with lead times for supply planning
- Dashboard for end of life horizons

PLM Report
UNICOM Engineering's Product Lifecycle Management Report

3
End of Life

2
Sustain

- Track all Product Change Notices (PCNs) at once
- Indentify replacement components at a glance
- Minimize supply chain material shortages

Product Lifecycle Management (PLM) Report

UNICOM Engineering takes a holistic approach to Product Lifecycle Management (PLM) enabling you to strategically manage each phase of your solution. The basis of the system is the data that relates to the design, production, support, end of life and potential transition plans to new technology. Along with a proactive and comprehensive approach that ensures predictable, repeatable builds and reduces the many risks and costs associated with change.

⊛ Branding

UNICOM Engineering is committed to delivering a product that distinctly carries your company brand and delivers a positive out-of-the-box experience. We offer a full range of branding services that include custom branding for our standard bezels, packaging, user manuals, CDs, quick reference guides and more. Our in-house designers can also help create a custom brand with the perfect look and feel. Customers typically use our branding services to streamline their final assembly and packaging processes.

Partner Branding

UNICOM Engineering offers a full range of standard branding services that include custom bezel labels to fit our standard bezels, hardware installation guides, CDs and more. Our in-house designers can help create the perfect brand identity for your product. We also offer the option of creating custom branding and packaging options.
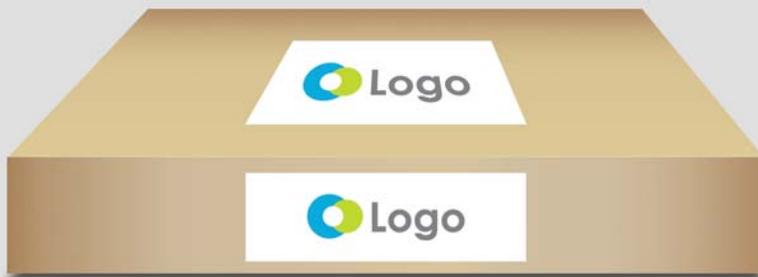
Example of a standard UNICOM Engineering product, bezel, and label

Example of a hardware setup guide

Example of a standard ship carton label (11" x 8.5") that is placed on the top of the ship carton

Example of a CD label

Optional side label (11" x 4.25")

Custom Technical Documentation and Training

UNICOM Engineering provides customized technical documentation and training to enhance your product offerings. UNICOM Engineering develops custom documentation, e-learning courses, blended technology learning solutions, and classroom instruction models that engage students with learning modules strategically designed utilizing the best of accelerated learning principles and instructional design methodology.

Regulatory Compliance

UNICOM Engineering designs solutions to meet stringent compliance and regulatory standards such that our products easily pass test and qualification requirements. From initial concept to early prototyping, beta testing, quality manufacturing and final certification, UNICOM Engineering's value-add services can reduce engineering overhead, accelerate time to market and ensure long-term success.

On behalf of customers that require regulatory compliance, UNICOM Engineering will create all documentation, submit test results and manage the entire certification process. We leverage our specific design expertise in NEBS, UL, FCC, CE, VCCI and CB to minimize non-compliance problems. We also have a successful track record in working with National Recognized Test Labs (NRTL).

Quality Standards

UNICOM Engineering is an ISO 9001:2008 and TL 9000 Rev. 5.0 registered design and manufacturing facility.
Our customers are assured high quality systems that meet stringent industry and international compliance regulations.

Why do leading technology companies trust UNICOM Engineering to deploy their solutions?

We have found that the following attributes are the things that create a sense of confidence in the minds of our customers as they partner with us to become an extension of their business.

- Comprehensive technology partner network including OEM affiliations with Dell, Intel, HPE, Supermicro and Lenovo
- Flexible engagement model with a proven ability to accelerate design, test, production and delivery
- Substantial engineering staff with deep technical expertise in purpose-built appliances, server platforms, and enterprise storage
- Multiple, global manufacturing sites designed to produce identical results regardless of location(s) utilized
- Quality and control systems throughout production process to ensure predictable, repeatable builds
- Full Lifecycle Management from initial development and product enhancements through end of life transition management
- Commitment to quality leadership backed by ISO 9001, TL 9000, and ISO 14001 certifications
- Business analytics tools to provide real-time visibility, optimize performance and decrease risk
- Extended warranties and worry-free repair, refurbishment and replacement services
- Always on, direct technical support services (phone, web, onsite)

ABOUT UNICOM ENGINEERING

UNICOM Engineering is a leading provider of server-based application platforms and lifecycle support services for software developers and OEMs worldwide. Through its expertise and comprehensive suite of solution design, system integration, global logistics, trade compliance, support and business analytics services, UNICOM Engineering is redefining application deployment solutions to provide customers with a sustainable competitive advantage. More than a decade of appliance innovation and strong technology partnerships make UNICOM Engineering one of the most trusted deployment partners in the industry. Founded in 1997, UNICOM Engineering has facilities in Canton, Massachusetts; Plano, Texas; and Galway, Ireland. For more information, visit www.unicomengineering.com.

Contact Us

UNICOM Engineering's broad range of appliance platforms or deployment services, please contact us by telephone +1 (800) 977-1010 or by email at info@unicomengineering.com.

✉ sales@unicomengineering.com 🏠 unicomengineering.com 🐦 twitter.com/UNICOMEng

f facebook.com/UNICOMEng 📞 +1 800.977.1010 in linkedin.com/company/unicomengineering