

United Private Cloud for Manufacturing

Secure software-defined private cloud with AI-ready acceleration and built-in intelligence for manufacturers, industrial operations, smart factories, and connected production environments.

Helping manufacturers modernize operations with resilient private cloud, secure edge-to-core infrastructure, GPU-ready AI, and unified observability and orchestration.

 Secure

 Scalable

 Intelligent


99.999%
Availability


30+
Cloud Regions


175+
Edge Locations


100+
IaaS & PaaS Services





Where UnitedLayer Helps Manufacturing Organizations

Key solution areas for industrial enterprises, smart factories, automotive, engineering, and distributed production environments.



Smart Factory Modernization

Modernize plant IT and production systems with secure, highly available infrastructure.



Industrial IoT & Edge Operations

Connect sensors, machines, and edge sites with resilient low-latency infrastructure.



Predictive Maintenance

Support AI-driven maintenance analytics to reduce downtime and improve asset reliability.



Quality Inspection with AI

Enable AI-ready infrastructure for visual inspection and process optimization.



Manufacturing Data Platforms

Scale MES, ERP, analytics, and operational data workloads securely.



Cybersecurity & OT Resilience

Protect IT and OT environments with Zero Trust security and resilient recovery.



Business Continuity & DR

Keep critical manufacturing workloads available with DRaaS and failover.



ESG, Efficiency & Cost Optimization

Improve efficiency, sustainability visibility, and cost control with intelligent operations.



Factory Uptime



Faster Modernization



Operational Resilience



AI-Driven Efficiency

Manufacturing Cloud Capabilities

A secure, scalable, and intelligent platform architecture designed for connected manufacturing and smart operations.



Software-Defined Private Cloud



- 99.999% availability with N+M clusters
- On-demand scaling of cloud resources
- Software-defined network, compute, and storage
- Integrated security with restricted IP access

Hybrid Cloud Infrastructure



- 30+ Private Cloud Regions and 175+ edge locations
- Connectivity to plants, partners, and cloud environments
- Fully managed cloud services
- Integrated disaster recovery services

UPC Accelerated



- GPU-optimized private cloud
- AI-ready environment for industrial analytics
- Supports predictive maintenance, quality inspection, and operational AI
- Predictable economics and managed operations

UPC Built-in Intelligence



- Unified observability
- Centralized cloud management
- Automation and orchestration
- Real-time monitoring, compliance, and cost optimization



Built for Security



Built for Performance



Built for AI



Built for Intelligent Operations

Manufacturing Case Study

UnitedLayer Accelerates Smart Factory Transformation for a Global Automotive Manufacturer

A global automotive manufacturer needed a secure, scalable, and intelligent infrastructure foundation to modernize factory operations, enable smart manufacturing, and support data-driven transformation.



Business Need

- Needed infrastructure to support smart factory transformation across manufacturing environments.
- Required resilient connectivity for factory systems, applications, and industrial data.
- Needed high availability, secure operations, and scalable performance for evolving workloads.
- Wanted to improve operational visibility, automation, and efficiency.



Solution Delivered

- Delivered secure and scalable infrastructure using United Private Cloud®, UnitedSecure™, and UnitedConnect®.
- Enabled modernized plant infrastructure, secure connectivity, and resilient operations.
- Supported AI-ready and performance-intensive workloads with UPC Accelerated.
- Provided built-in intelligence for observability, cloud management, and optimization.

Smart Manufacturing Priorities



Factory Modernization



Connected Operations



AI-Ready Infrastructure



Operational Visibility

Business Impact



Faster smart factory transformation



Improved plant uptime and resilience



Scalable support for industrial applications and data growth



Better operational efficiency through centralized visibility and automation.



Stronger security for connected manufacturing environments

Relevant Capabilities



United Private Cloud®



UnitedSecure™



UnitedConnect®



UPC Accelerated



UPC Built-in Intelligence



DRaaS / Cyber Vault



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