



UnitedLayer 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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