

Unwired CloudLink Datasheet

Intelligent, managed WAN bonding service for resilient, high-bandwidth edge connectivity

Feature List 2025/08/14

Intro

Unwired CloudLink combines multiple cellular, Wi-Fi, Ethernet, and satellite connections into a single, high-performance tunnel. Based on Bondix technology, the solution is delivered as a fully managed service, ensuring uninterrupted connectivity, global availability, and easy integration into edge fleets and vehicle networks.

WAN bonding modes & fault tolerance



- **Seamless failover:** One WAN connection is active, the others remain connected for seamless switchover.
- **Load balancing with seamless transition:** All WAN connections are active and handle different application loads.
- **WAN bonding (aggregation):** Combines the bandwidth of all WAN connections into a single logical uplink.
- **Packet duplication:** Replicates data packets across two or more WAN connections for maximum reliability.
- **Protocol independent:** Supports all common protocols, including IPSec, WireGuard and OpenVPN.

Secure & compliant infrastructure

- Infrastructure is certified according to ISO 27001 and ISO 9001.
- Tunnels are secured through certificate-based authentication and TLS.
- Relay servers are geo-redundantly distributed across the EU/USA, with customizable region options.

Easy deployment & management

- Client and server deployment is fully automated.
- Rollouts can be configured fleet-wide or device-specific.
- OTA updates and a graphical interface enable remote control.
- Monitoring is available via OpenMetrics API and dashboards.
- Tunnels can be set up with a click via the user interface.

Comprehensive platform support

- Seamlessly integrated into Unwired Edge Cloud OS.
- Agents available for Linux, OpenWRT, virtual machines and containers.
- Supports third-party providers such as Teltonika, Digi and Advantech.
- Optionally available as a self-hosted server solution with full functionality.

Use cases

- Seamless passenger Wi-Fi on buses and trains
- Critical telemetry and IoT connections (railway, oil industry, agriculture)
- Redundant connectivity for mobile deployments and live video transmissions
- Backup internet for retail locations and remote offices

Technical features

- The Bondix software stack includes client and relay server components.
- Tunnels and certificates are automatically managed throughout their entire lifecycle.
- Supports various uplink types: LTE, 5G, Satellite, WLAN, Ethernet
- Advanced traffic control with packet duplication, smoothing, and link weighting
- Monitoring and provisioning via OpenMetrics-compatible APIs
- Native VPN support for IPSec, WireGuard and OpenVPN

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The logo for Unwired Networks features the word "Unwired" in a green sans-serif font above the word "Networks" in a larger, bold green sans-serif font. A stylized signal icon consisting of three concentric arcs is positioned above the letter 'i' in "Unwired".

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