DATA SHEET

mwLink™ Local · Lighting & HVAC control appliance

Project | **Location / Type** | **Model** LNK-LOCAL-STD-100

mwLink™ Local

On-premises lighting and HVAC control dashboard on the mwLink Bridge

mwLink Local runs on the mwLink Bridge, a compact appliance installed on the building network. It connects to the BACnet/IP gateways already on site, reads every zone in real time, and serves a secure web dashboard to any phone, tablet, or computer on the local network. Control, schedules, and history run on the appliance and keep working through any internet outage. No app to install and no subscription required for local use.



mwLink Bridge · one per building · up to 16 gateways

Overview

- Web-based dashboard for every lighting zone: status, control, occupancy, energy, and device health
- Works with TruBlu™ (Silvair) and Casambi Bluetooth mesh networks through their BACnet/IP gateways, plus NETx network thermostats
- Luminaire fault reporting (TruBlu / DALI D4i) and HVAC not-reaching-setpoint detection
- Occupancy and energy history stored on the appliance, with trend charts and CSV export
- Local schedules: weekly or one-time, scenes or levels, US holiday quick-pick
- Email alerts: fault detected / cleared, gateway offline / online, scheduled digest
- Floor-plan views with live zone markers
- Optional plugins: OpenADR 3 automated demand response, Node-RED automations, AI Insights (beta)

Features

- Accessible through any current browser (Chrome, Edge, Safari, Firefox); nothing to install
- Runs entirely on site; no cloud dependency for monitoring, control, or scheduling
- Named user accounts with Super / Admin / General roles, two-factor sign-in, on-device activity log
- HTTPS dashboard and REST API; Basic-auth API access for integrators
- Thermostat control: setpoints, mode, operating hours, occupancy from linked lighting zones
- Self-monitoring appliance: I/O watchdog, service watchdog, automatic recovery
- Remote support by mwConnect over an outbound-only secure tunnel; no inbound ports
- Optional mwLink Cloud adds multi-site analytics

Supported Platforms

- TruBlu™ / Silvair gateway (SGW-104, Minew G1-E) BACnet/IP + BLE mesh
- Casambi via Lithernet BACnet gateway BACnet/IP, PIV mode
- mwConnect Gateway (Casambi / TruBlu)
- NETx X-Series network thermostats (X5-IP, X7-IP)
- Generic BACnet/IP devices

TruBlu · CASAMBI · NT network thermostat · BACnet

At a Glance

Gateways	Up to 16 per Bridge, lighting gateways and thermostats combined
Zones	Up to 100 per TruBlu gateway; up to 255 groups per Lithernet gateway
Response	TruBlu and NETx event-driven (CoV) within seconds; Casambi polled
History	Hourly occupancy and energy rollups kept on the appliance
Users	Unlimited named accounts, three roles, optional 2FA
Internet	Not required for operation; used for gateway imports during setup, time sync, weather, and remote support
Installation	Typically 2-8 hours on existing gateways; 1-2 days for 60+ zones

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mwLink™ Local · Specifications

mwLink Bridge Appliance

Platform	Raspberry Pi 5, quad-core 64-bit Arm, 8 GB RAM
Storage	NVMe SSD, 128 GB; database and history on the appliance
Network	1 × Gigabit Ethernet (RJ45), DHCP or static address
Wireless	Bluetooth 5 (BLE mesh direct control); 2.4 GHz Wi-Fi setup hotspot
Power	USB-C, 5 V / 5 A (27 W) power supply included
Enclosure	Aluminum, mwConnect labeled with device ID and setup QR codes
Mounting	Shelf or equipment-rack shelf, free-standing; indoor, dry location
Dimensions / weight	Approx. 95 × 65 × 40 mm (3.7 × 2.6 × 1.6 in); 82 g (2.9 oz)
Operating temp.	0 to 50 °C (32 to 122 °F) ambient
Compliance	Raspberry Pi 5 platform: FCC, CE, UKCA, RoHS

Communications

BACnet/IP	UDP 47808: Who-Is / I-Am, ReadProperty, ReadPropertyMultiple, WriteProperty (priority 8), SubscribeCOV
Web / API	HTTPS on TCP 8443; session login for the UI, HTTP Basic for the REST API
Email	SMTP with STARTTLS (587) or SSL (465)
Device setup	HTTP (TCP 80) to NETx thermostats and Lithernet gateways
Demand response	OpenADR 3 VEN (plugin)
Internet	Outbound only: gateway cloud imports during setup, NTP, weather, remote support. No inbound connections.

Capacities

Gateways	Up to 16 per Bridge (lighting gateways and thermostats combined)
Zones	Up to 100 per TruBlu gateway; up to 255 groups / 250 devices per Lithernet gateway
Update rate	TruBlu and NETx: event-driven (CoV) within seconds; Casambi: polled, occupancy ~1 min, light levels ~3 min
History	Hourly occupancy and energy rollups retained on the appliance; raw readings 30 days (configurable)
Thermostats	Each lighting zone links to one thermostat; occupancy from BLE sensor, BACnet, or Node-RED
Users	Unlimited named accounts; Super / Admin / General roles; TOTP two-factor with backup codes

Software

Version	mwLink Local v1.10.37
Platform	Debian 13 (64-bit), Python 3.14, SQLite
Services	Web UI/API, BACnet poller with CoV, BLE mesh client, scheduler, I/O and service watchdogs
Updates	Applied by mwConnect; under two minutes of downtime
Browsers	Current Chrome, Edge, Safari, Firefox on desktop and mobile

Plugins

Always on	TruBlu, Casambi, NETx thermostats
Optional	OpenADR 3 demand response, Node-RED automations and dashboards, AI Insights (beta)
Roadmap	eGauge and PowerLogic metering, Johnson Controls VAV, emergency lighting testing, cloud backups, MaintainX

How To Order

MODEL NO.	DESCRIPTION
LNK-LOCAL-STD-100	mwLink Local dashboard on the mwLink Bridge appliance, with power supply and commissioning support. One per building.
Optional plugins	OpenADR 3 automated demand response, Node-RED automations, AI Insights (beta). Contact mwConnect for licensing and compatible hardware.

Requires an existing TruBlu, Casambi, or BACnet/IP gateway on the building network. Gateway name and scene imports and the optional plugins need internet access during setup. Design and specifications are subject to change without notice.

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