

IPhouse Cloud

Connecting Smart Homes to Smart Cities · One Platform · Secure P2P · Total Control

TECHNICAL BRIEF · EDITION 2026

Official Keynote

IPhouse is a local-first automation platform with a secure cloud management layer on top — engineered for reliability on site and painless remote operation at fleet scale.

50,000+

CONNECTED DEVICES

5,000+

GATEWAYS

99.99%

AVAILABILITY

256-bit

ENCRYPTION

Architecture — Edge First

The gateway is a full local controller. Automation logic, the scene engine, KNX, Modbus RTU/TCP, offline voice recognition, and on-device camera AI all execute on the gateway itself, with no hard dependency on the cloud or internet for the site to function.

The cloud layer is additive: authentication, user management, configuration, OTA firmware, analytics, and the alarm service across a fleet of gateways.

Connectivity

Remote access requires no VPN, no port forwarding, and no static IP. The gateway negotiates an encrypted P2P connection with automatic NAT traversal.

- Path: phone !' internet !' IPhouse Cloud !' gateway !' building, every hop 256-bit encrypted.
- Works behind carrier-grade NAT and the customer firewall — no network reconfiguration.

Fleet Operations

Commission once on site, then operate thousands of gateways from a single cloud console.

- Device discovery & gateway configuration
- Over-the-air firmware
- Live diagnostics & logs

- Configuration backup & restore
- User management

Protocols & Interoperability

Open by design, using the protocols you already work with: KNX, Modbus RTU, Modbus TCP, TCP/IP, REST API, MQTT, ONVIF and RTSP for cameras, and Matter ready. IPhouse brings the existing installed base under one controller and one app.

Energy — Green House DC

The Green House gateway manages a DC bus fed by solar and battery, continuously reporting DC remaining (state of charge and estimated runtime) and handling source switching.

- Default: DC-main with automatic grid backup on low battery, no load interruption.
- Reversible from the control dashboard to grid-main / DC-backup for reserve or peak-shaving.

Security

Zero-trust from device to cloud.

- Cryptographic identity for every gateway; signed, verified firmware.
- Role-based access, encryption in transit and at rest, complete audit logs.
- Private-cloud deployment option for data sovereignty.