SMARTLIBERTY
— MORE TIME FOR CARE —

SLIM

SMARTLIBERTY INTELLIGENT MESH

CONNECTED THROUGH THE POWER OUTLET
NO NEW CABLING REQUIRED

RF Readers use the existing power supply and automatically connect with one another. The network independently determines the shortest communication path to a reader connected to the LAN network. This creates an intelligent and robust wireless infrastructure in a very short time without construction work.



EASY INSTALLATION, LOWER COSTS

Readers are powered using the existing electrical infrastructure. Additional network cabling is reduced to a minimum, simplifying installation and accelerating project implementation.

AUTOMATIC MESH NETWORK CREATION

New components automatically detect existing network nodes and integrate themselves into the SmartLiberty Mesh network.

SELF-HEALING NETWORK

If a connection is interrupted or a component fails, the Mesh network automatically identifies alternative communication paths and maintains connectivity through other nodes.

FLEXIBLE EXPANSION

Additional areas, rooms, or building sections can be added at any time. New readers integrate automatically into the existing infrastructure and scale with the institution's requirements.

RELIABILITY AND AVAILABILITY

The decentralized network architecture minimizes single points of failure and ensures reliable alarm and communication services.

EASY MODERNIZATION OF EXISTING INSTALLATIONS

Existing 24 VDC infrastructures can continue to be used.

SLIM

INFRASTRUCTURE MESH
TECHNICAL OVERVIEW

SELF-CONFIGURING

Automatic route discovery and routing via the shortest communication path. A route cache enables fast switching whenever network paths change.

BIDIRECTIONAL & OTA

The existing communication and update model remains unchanged. Firmware updates continue to be delivered over the air (OTA).

ALWAYS AVAILABLE

Automatic LAN/Mesh detection with intelligent failover. Existing firmware for badges, markers, and sensors remains unchanged.

THREE DEPLOYMENT OPTIONS

FULL COVERAGE
One LAN-connected reader per floor, typically located at the nursing station. For maximum availability, at least two gateway readers per building are recommended.

NETWORK FAILOVER
If the LAN connection is interrupted, the Mesh network remains operational as long as the readers are powered via PoE, mains power, or battery backup.

EXTENDED COVERAGE
Additional readers eliminate coverage gaps and extend the wireless network range. Integration into the Mesh network is fully automatic.

FOUR POWER SUPPLY OPTIONS



PoE
Power and data via LAN



Bus 24 VDC
Shared low-voltage power line



Power Adapter
Standard wall outlet



Building Power Grid
Permanent building installation

MINI UPS FOR EVERY READER
A battery pack can be added to all variants. Electrical installation requirements and local regulations must be observed.

≈ 4 h
of backup power