2N

2N® LiftGate

Multimedia emergency communication in lifts

The 2N® LiftGate IoT gateway will transform a regular lift into a modern IP solution for the 21st century. Plus, you needn't worry if there's a UTP cable in the lift. IP connectivity in the lift is secured using 2 wires in the travelling cable. 2N® LiftGate combines the functions of an LTE router, a backup power supply, a converter (2-wire to IP) and a switch all in one unit. Install just 1 product instead of 4 and save time and money.

Features & benefits

IP connectivity over 2-wire
Install the 2N® LiftGate in the lift machine room, a 2N® LiftGate Cabin Switch on the roof of the cabin and connect them via 2 wires in the travelling cable.

All in one IOT device
You no longer need a separate LTE router, switch, converter and backup power supply. 2N® LiftGate will perform all these functions for you. One certified product that saves you time and money.

Connecting the machine room and the cabin
Connect a lift controller and IP telephone to 2N® LiftGate in the machine room. This meets the requirements of technical standards for shafts of more than 30 m and ensures communication between the machine room and the cabin.

Communication via SIM and WAN port
You only need one SIM card to make calls, for data communication with the gateway, the controller or access control system. A backup option can be provided in the form of a WAN port or second SIM.

Relay outputs and inputs
Has the mobile network gone down? The 2N® LiftGate switches a relay, informs the controller, which changes the status of the lift to out of service. However, relay outputs and inputs offer many more scenarios.

Up to 4 IP devices in the cabin
You can connect an IP communicator, a camera, a display for ads or a reader to the 2N® LiftGate Cabin Switch. There's even a backup 12 V output for emergency lighting.
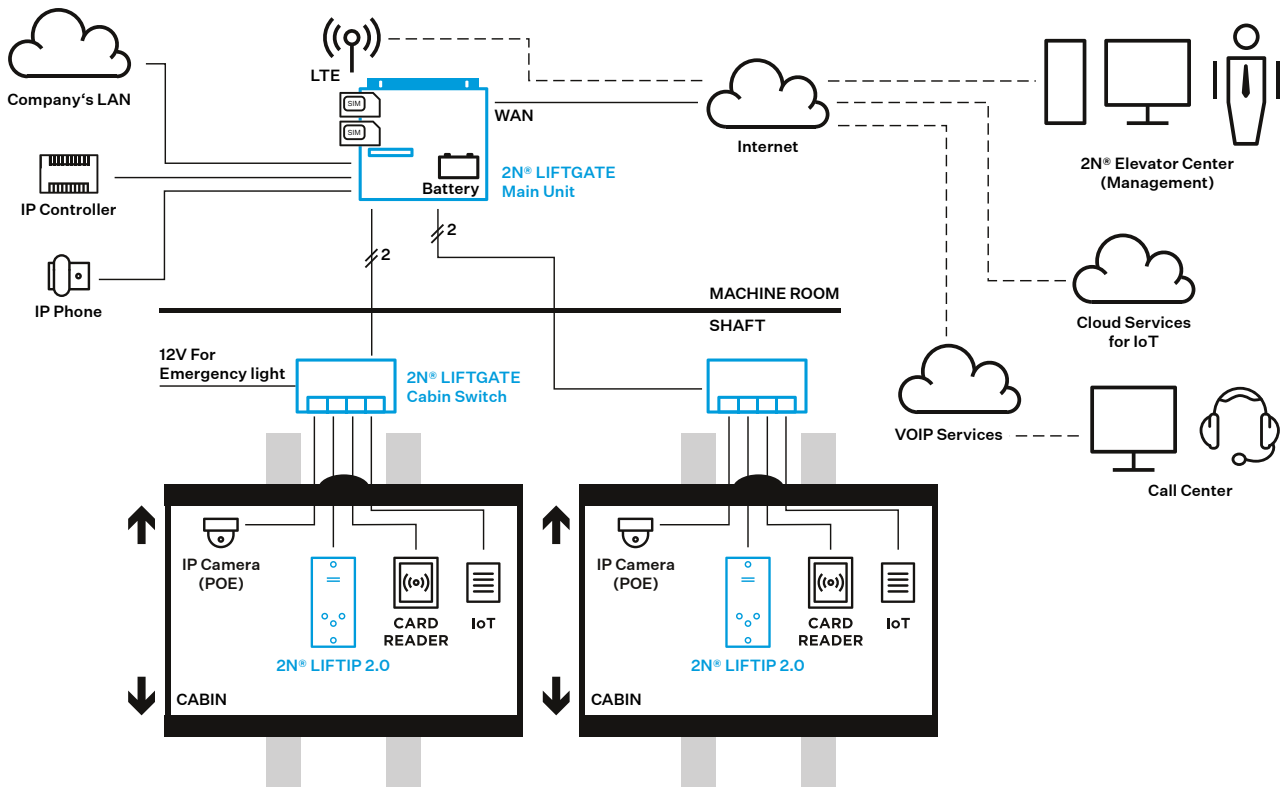
Management via cloud and SMS
Connect the IoT gateway to the 2N® Elevator Center in cloud to manage and monitor it remotely. Naturally, you can control the gateway and get notifications via SMS.

Backup power supply
Ensure emergency communication in the lift even during power cuts. The 2N® LiftGate solution includes UPS to power critical communication equipment and emergency lighting.
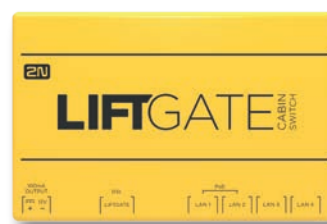
Connection diagram

- Company's LAN
- IP Controller
- IP Phone
- LTE
- SIM
- SIM
- Battery
- 2N® LIFTGATE Main Unit
- WAN
- Internet
- 2N® Elevator Center (Management)
- Cloud Services for IoT
- VOIP Services
- Call Center
- MACHINE ROOM
- SHAFT
- 12V For Emergency light
- 2N® LIFTGATE Cabin Switch
- IP Camera (POE)
- 2N® LIFTIP 2.0
- CARD READER
- IoT
- CABIN

Variants

2N® LIFTGATE, 2X CS, AKU+, AU PLUG

5024101AU

2N® LIFTGATE, 2X CS, AKU+, EU PLUG

5024101E

2N® LIFTGATE, 2X CS, AKU+, US PLUG

5024101US

2N® LIFTGATE CABIN SWITCH, 4X ETH, 12V DC

502460E

Technical Parameters

Main unit

Telephone network

GSM band	EU (EGSM 900 MHz, GSM 1800 MHz) AU (EGSM 850/900 MHz, GSM 1800/1900 MHz)
UMTS band	EU (850/900/2100 MHz) US (850/1700/1900 MHz) AU (850/900/1900/2100 MHz)
LTE band	EU (B1, B3, B5, B7, B8, B20) US (B2/B4/B5/B12/B13/B14/B66/B71) AU (B1, B3, B5, B7, B28, B40)
SIM cards	2 slots; (U)SIM, 1.8 / 3.0 V

Antenna

Number	Two inputs (Main and Diversity)
Impedance	50 Ω
Connector type	F-SMA

Ethernet

Interface	4× RJ-45, 1 Gbps (1x WAN, 3x LAN)
PoE	1× PoE 802.3af Class 2 (max 6.49 W) via the LAN1 port
Protocols	IPV4, IPV6, ICMP, DNS, DHCP, NAT, HTTP, HTTPS, WS, NTP, OPENVPN, SYSLOG

Inputs and outputs

Inputs	2 0 - 24 V (low level 0-2 V, high 4-24 V)
Outputs	2× relay (NO, NC, COM terminal block) max. 30 V / 1 A DC, 125 V / 0.3 A AC
Number of lines	2

Power supply

Voltage	100 – 230 V AC
Frequency	50/60 Hz
Input power	65 W for 2× Cabin Switch
Backup power	built-in lead-acid battery, 12 V / 9 Ah (included)

Mechanical properties

Operating temperature	-20°C to +50°C
Dimensions	270 × 240 × 80 mm
IP protection	IP20
Weight	4.7 kg with battery, 2.2 kg without battery

Cabin Switch
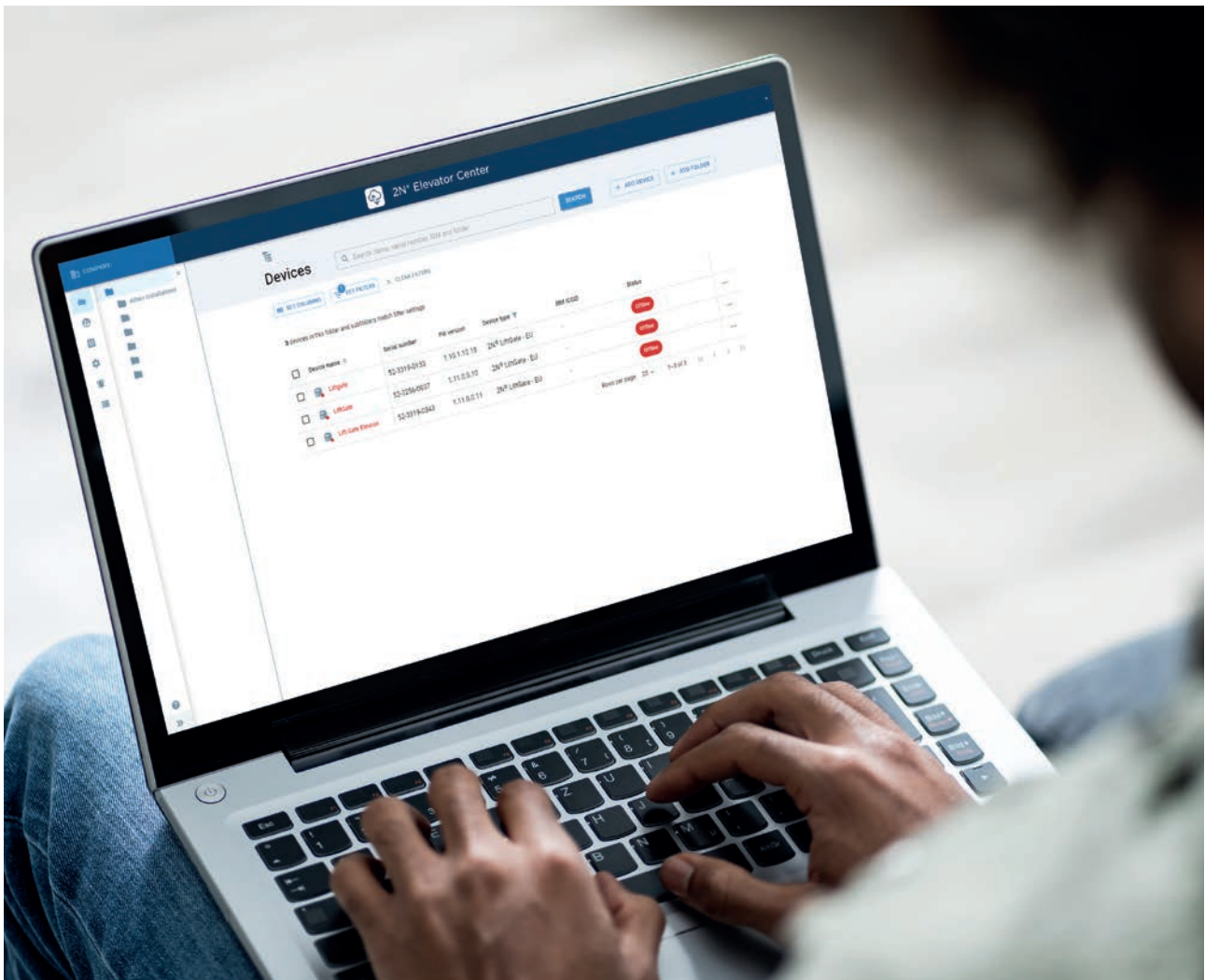
Connection to the main unit: 2 wires

Interface

Ethernet	4× RJ-45 port, 100 Mbps
PoE	2× PoE 802.3af Class 0 (max 12.95 W) via LAN1 and LAN2 ports
Output	12 V DC, 100 mA (for emergency lighting)
Protocols	IPV4, IPV6, ICMP, DNS, DHCP, NAT, HTTP, HTTPS, WS, NTP, OPENVPN, SYSLOG

Mechanical properties

Operating temperature	-20°C to +50°C
Dimensions	143 × 95 × 32 mm
IP protection	IP30
Installation	Surface mounted on a wall or DIN rail
Weight	0.2 kg

Warranty

5-years warranty see
https://www.2n.com/en_GB/support/warranty-and-repairs

Centralized management and monitoring

The 2N® Elevator Center gives you non-stop control over all installed elevator devices. Manage and monitor your IP communicators, gateways and routers from your office. You don't need any IT skills. A technician will install the device and it will automatically connect to the portal in just a few seconds. 2N® Elevator Center will safely and reliably usher you to the world of smart elevators with modern functions.

Member of the AXIS group

2N TELEKOMUNIKACE a.s.

Prague, Czech Republic | +420 261 301 500 | sales@2n.com

2N.com