HUB 2 PLUS LTE

CENTRAL CONTROL UNIT

The HUB 2 PLUS LTE is the intelligent central control unit of the SAFE alarm system, managing all connected devices and immediately notifying the user of any potential threats. Certified to Security Level 2, it meets stringent standards for protection against sabotage, signal jamming, and tampering. It fully supports the latest security technologies, including photo and video verification of alarm events, system automation, and seamless integration with IP cameras or third-party systems.



Data Encryption with AES Algorithm with Floating Code

The SAFEKeeper encrypted communication protocol ensures maximum protection of the security system.

Radio Signal Range up to 2000 m

Stable and efficient communication with a range of up to 2000 m in open space.

Bidirectional Information Transfer between Devices

Uninterrupted interaction between the central unit and devices using AES128 encryption.

Battery Backup for up to 12 Hours of Operation

Hub 2 Plus LTE remains operational during a power outage.

65 Users

System management includes - 31 regular user, 1x administrator, 1x integrator and 32x keyboard user.

4 Communication Channels

The Hub has the following 4 communication channels: Ethernet connection, Wi-Fi, 2x GSM/GPRS/LTE.

Firmware Update via Cloud Services

Adding new features, enhancing software security and expanding the security system capabilities.

Security Level 2 According to EN 50131

Provides the highest standard protection for wireless components of the alarm and panic system (PZTS).

Connect up to 150 Devices

Limit capacity of 6 sirens, 64 PIR Motion Cam, 64 remotes, 8 keypads and 4 signal repeaters.

Interference Detection

If signal interference is detected, the user is alerted, and the device automatically switches to a clear frequency band.

Support for Video Monitoring Integration

Supports simultaneous visual data transmission from Motion Cam sensors with a built-in camera.

Tamper Protection Against Sabotage and Unauthorized Handling of the Device

Protects devices from sabotage or any unauthorized handling.

Up to 64 Scenarios

Discover the potential of your system with scenarios to automate your routines and processes.

Free app

An app that allows you to easily and efficiently manage all your security devices within the SAFE ecosystem.

Technical Specifications - Hub 2 Plus LTE

Model Identification

SAFE 38300	White EAN code - 0728204234792
SAFE 38301	Black EAN code - 0728204234952

Interface

Wireless Elements	150 channels of wireless peripherals (6 sirens, 64 PIR with camera (8 indoor PIRs with camera only), 64 controllers, 8 keypads and 4 signal repeaters)
Network Modes	Ethernet, Wi-Fi and mobile network (supports installation of two SIM cards. Only one SIM card can be activated at a time)
Network Port	1× RJ-45, 10 Mbps / 100 Mbps Ethernet port

Video a audio

Video Inputs	8 channels of IP cameras / NVRs (only for sending video sequences during an alarm)
Video Link	Yes
Audio Output	1 channel
Volume Control	Yes
Voice Broadcast	Telephone or built-in speaker

Functions

LED Indicator	1× multicolor (alarm, arm / disarm, cloud connection, fault)
Buttons	1× power button / 1× reset button / 1× AP mode button
SMS / Phone Call	Yes / Yes (up to 5 phone numbers)
Offline Cache	Stores up to 50 alarm messages
Arm and Disarm	Application, keypad, key fob, RFID card, scenario, ext. peripheral input
Remote Update	Yes (Cloud)
Sabotage Contact	Yes (tamper)
User Management	33 application users (31 regular users, 1 administrator and 1 technician) and 32 keyboard users
Event Logs	Up to 5,000 records
Transmission Protocol	SIA, SoftGuard

Wireless Transmission

Carrier Frequency	868.0 MHz – 868.6 MHz
Transmitter Power (EIRP)	Limit 25 mW
Communication Type	Bidirectional
Communication Distance	Up to 2,000 m (6561.68 ft) in open space
Encryption Mode	AES128
Frequency Hopping	Yes (automatic)

System Installation and Expansion

The device is ready for operation almost immediately out of the box. Setup via the ProSAFE mobile app and adding detectors simply by scanning the QR code couldn't be easier. Thanks to the smart mounting brackets and included fasteners, assembly takes only minutes. Easy installation, flexible configuration, and wireless communication make the SAFE system highly modular. Users can freely expand or adapt their installation to current needs and evolving individual requirements at any time.

Smart Apps for Smart Devices

SAFE provides the intuitive and completely free ProSAFE mobile app, allowing you to easily and efficiently manage all devices within your security ecosystem. Whether it's video phones, intercoms, IP cameras, recording devices, detectors, or automation elements, everything is under control in one place. The app is designed for smart devices running Android and iOS and is fully localized in Czech, Slovak, Polish, English, German, and Hungarian, ensuring maximum convenience for users. Thanks to a clear interface and simple, intuitive controls, managing your security system takes just a few easy steps.

SAFE Keeper Wireless Communication

SAFE Keeper is a radio protocol designed for the SAFE wireless security system. It operates at a frequency of 868.0-868.6 MHz and provides an interference-free communication range of over 2,000 m in open areas. Protected by AES128 encryption and a bi-directional communication mechanism, it ensures enhanced security for the transmitted data. In case of radio signal interference, the user is notified and the device automatically switches to a clear frequency band. The device is reliably protected against software-level threats. SAFE Keeper delivers the maximum and effective protection of the wireless security system.

Technical Specifications - Hub 2 Plus LTE

General

Power Supply	100 – 240 V AC, 50 / 60 Hz, 0.4 A
Battery Backup	Lithium 3.7 V / 4750 mAh, standby time up to 12 hours
Power Consumption	≤12 W
Operating Temperature	When battery is charged: -10 °C to +55 °C (+14 °F to +131 °F) When battery is charging: 0 °C to +45 °C (+32 °F to +113 °F)
Operating Humidity	10 % to 90 % (RH)
Storage Conditions	Temperature: -10 °C to +55 °C (+14 °F to +131 °F) Humidity: 10% to 90% (RH)
Product Dimensions	174.8 mm × 174.8 mm × 38.3 mm (6.88“ × 6.88“ × 1.51“)
Package Dimensions	254 mm x 210 mm x 60 mm (10" x 8.27" x 2.36")
Weight (net)	510 g (1.12 lb)
Weight (gross)	920.50 g (2.03 lb)
Installation	Wall mount, desktop
Housing Material	PC + ABS
Compliance	CE EN 50131-1:2006+A1:2009+A2:2017+A3:2020 EN 50131-3:2009 EN 50131-6:2017 EN 50131-5-3:2017 EN 50131-10:2014 EN 50136-2:2013 Security Grade 2 Environmental Class II ATS category: SP2 / DP2
Warranty	36 months

Wi-Fi

Wi-Fi Standard	IEEE 802.11b/g/n
Wi-Fi Frequency Range	2400 MHz – 2483.5 MHz
Wi-Fi Power Transfer	≤20 dBm@2400 – 2483.5 MHz

Cellular network

Transmitter Power (EIRP)	4G: Power class3: 23 dBm ±2 dB 3G: Power class3: 24 dBm +1/-3 dB 2G: Power class0: 30 dBm ±3 dB GSM900 Power class5: 33 dBm ±3 dB GSM1800
Cellular Network Standard	GSM/WCDMA/LTE
Frequency Range	4G: FDD-LTE: B1/B3/B7/B8/B20/B28; TDD-LTE: B38/B40/B4; 3G: WCDMA: B1/B5/B8; 2G: 1800/900MHz GSM: 1800/900MHz; FDD-LTE: B1/B3/B7/B8/B20/B28A; TDD-LTE: B38/B40/B41; 3G: WCDMA: B1/B8; 2G: GSM: 1800/900MHz

Cloud-based Firmware Update

The SAFE security system is designed to support updates not only for the mobile application but also for the firmware of sub-devices and the central control unit. This ensures the SAFE system continuously evolves with modern trends, updating, optimizing, and expanding with new functionalities in line with technological developments and user needs. The entire process uses encrypted communication, guaranteeing maximum data protection and integrity. Updates can be performed fully automatically or with user confirmation.

Protection Against Sabotage

The SAFE security system cannot be disabled without the user's permission. It alerts users to device failures or loss of connection and records this information in the incident history. Anticipating serious threats, the SAFE system incorporates not only multi-level backup systems but also backups of these systems. In the event of a power outage, the Hub 2 Plus LTE continues operating on battery backup. If radio communication is disrupted, it switches to backup frequencies and notifies the user or the alarm receiving centre. If the Ethernet connection is interrupted, communication continues via the next available channel.

Photo Verification Capability for Alarm Incidents

When unauthorized entry is detected, the Hub 2 Plus LTE works with Motion Cam motion detectors (for both indoor and outdoor use) that provide photo verification of the alarm and instantly send images to the ProSAFE app or alarm receiving centers. This eliminates the need for constant monitoring of security cameras while ensuring complete privacy when securing indoor areas. For parallel video transmission from Motion Cam detectors with integrated cameras, the Hub 2 Plus LTE combines Wi-Fi and Ethernet technologies with radio protocols.