

# 2021

## Solutions catalog

## ADATIS



Biometry, Access Control, Intercom



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3D facial recognition based on Deep Learning and Artificial Intelligence.

Smartphone-like user experience for your entrance.

High-end biometry and intercom for residential and commercial applications.

We are specialists in the development of biometric access control solutions. Benefit from our many years of experience in video processing and our focus on 3D facial recognition.

We are working on next-generation access control systems and intercom solutions, based on wired or wireless network connections and also via existing bell wire lines.

Biometry will be an integral part of many systems in the future - we already provide innovative solutions for you. Our systems identify legitimate users fully automatic and hands-free. Any other credential can be combined with facial recognition for even higher levels of security.

In this catalog we have compiled an overview of our standard product offering. Please do not hesitate to call on us for custom or OEM solutions. We like challenges and thrive on exceeding your expectations.

Adatis - we turn innovative ideas into embedded products.



## Commercial

The commercial market comprises single enterprises up to a commercial campus. The emphasis is on access control, security and visitor communication.

Companies expect a flagship experience at their entrance: Our terminals cater for multi credential access control, adaptable levels of security, visitor communication, and seamless integration into existing access control management system. Other criteria are modern, touchscreen based design and a high level of customization with company logos and user pictures.

- ❖ Full integration into Voice-over-IP PBX
- ❖ Customizable with company logos
- ❖ Multi factor authentication
- ❖ Biometry



## Residential / MDU

The residential market caters for single family homes or even large MDUs. The emphasis is on door communication and access control for inhabitants.

Residential applications demand contemporary design and unprecedented flexibility for the diverse needs of the users: Required are an almost infinite number of ring buttons with custom pictures and individual phone books per unit. Also, the integration into modern home automation systems and the world-wide accessibility via cell phone apps are mandatory.

- ❖ Bell wire, Wifi, or Cat5 connectivity
- ❖ Any number of ring buttons
- ❖ Mobile Apps
- ❖ Management interface (API)





## Terminal Management

Any installation with more than a single unit requires an efficient management, with data import and export capabilities and with integration into facility management systems.

A linux server with a centralized SQL database facilitates a consolidated configuration and user management of all terminals in the network. The server is accessed via any web browser and can also be placed in the cloud.

- ❖ RESTful API for integration
- ❖ SQL-based databases
- ❖ XML/RPC based client and server Interfaces
- ❖ Cloud based management



## AI - Neural Networks

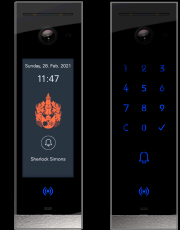
Face recognition is expected to be the dominant biometry technology in the future, thanks to the unobtrusive operation and the high level of security, especially when combined with 3D.

Artificial Intelligence (AI) technologies allow for recognition rates of 99,38% (LFW benchmark). Adatis offers AI inside the terminals for stand-alone, server-less operation as well as server-based solutions for GDPR compliant operation.

- ❖ Neural Network trained on faces
- ❖ Stand-alone or server-based operation
- ❖ NVIDIA (CUDA) based server
- ❖ Centralized data management (GDPR)

# PRODUCT OVERVIEW

## Terminals



**FaceEntry-XL / -XT / -XS**

**Face-UP**

## Remote Stations



**CommandCenter**



**DoorKeeper PC**



**Apps & Cloud**

## Server & Infrastructure



**FaceAdmin-AI**

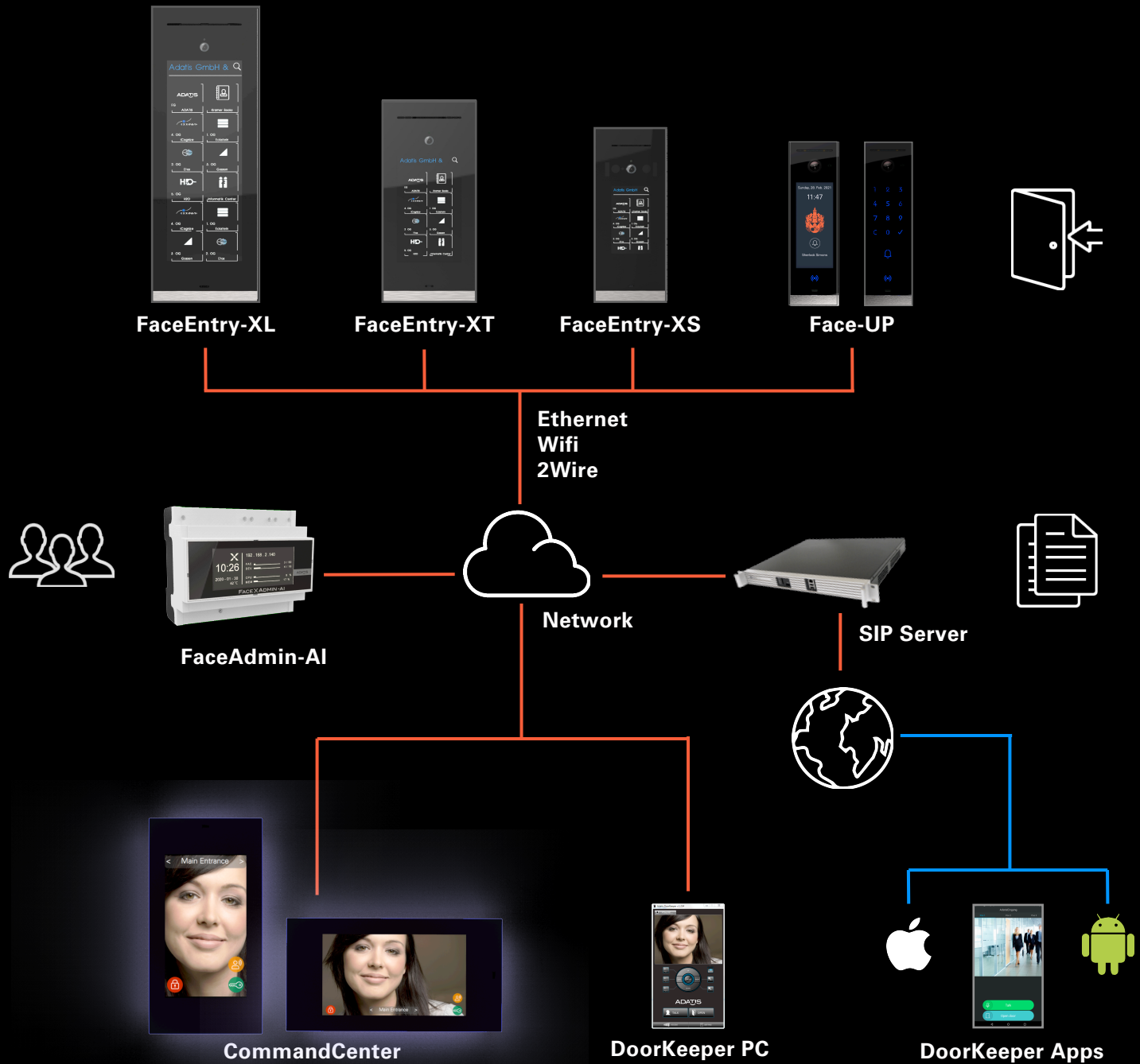


**IP-Relay**



**2Wire**

## SYSTEM OVERVIEW



# FACEENTRY-SERIES



## FaceEntry-Series - Key Features

- ❖ Outdoor intercom and access control unit
- ❖ 3D facial recognition, up to 1000 faces locally
- ❖ Audio/video intercom (VoIP) for visitor communication (SIP standard)
- ❖ LCD screen, sunlight readable, wide viewing angle
- ❖ Weatherproof touch, works in the rain
- ❖ Flexible GUI with groups / phonebooks
- ❖ Search function
- ❖ Full-HD WDR camera
- ❖ 130° fisheye lens with panorama view
- ❖ Electronic pan/tilt/zoom
- ❖ Custom screen saver with date/time or street address
- ❖ Integrated RFID reader with BLE
- ❖ PIN code entry
- ❖ Ethernet with Power-over-Ethernet
- ❖ WLAN / WiFi
- ❖ 2Wire connection (optional)
- ❖ Flush mount or surface mount

# FACEENTRY-XS / -XT / -XL



## FaceEntry-XL

- ❖ Large 12.3" LCD
- ❖ Business Park Entrances
- ❖ Large MDUs
- ❖ Student dormitories

## FaceEntry-XT

- ❖ Medium size 7" LCD
- ❖ Corporate Street Entrance
- ❖ Small multi family homes

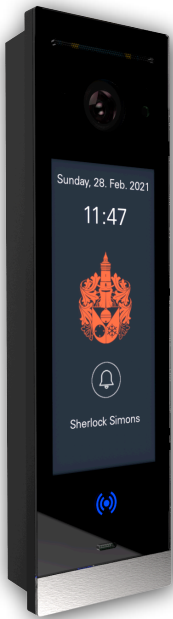
## FaceEntry-XS

- ❖ Small 4.3" LCD
- ❖ Department entrance
- ❖ Single family homes

# FACE-UP

## UP-Series - Common Features

- ❖ Outdoor intercom and access control unit
- ❖ Ultra compact and slim design
- ❖ 3D facial recognition, up to 1000 faces locally
- ❖ Audio/video intercom (VoIP) for visitor communication (SIP standard)
- ❖ Full-HD WDR camera
- ❖ 130° fisheye lens with panorama view
- ❖ Electronic pan/tilt/zoom
- ❖ IR night vision
- ❖ Integrated RFID reader with BLE
- ❖ Ethernet 100BASE-TX with optional PoE (802.3af)
- ❖ WLAN / WiFi
- ❖ 2Wire up to 500m over existing wires (optional)
- ❖ 12 VDC power
- ❖ Relay, C-form



### LCD-Version

- ❖ 3.5" LCD touch screen
- ❖ Call buttons or keypad



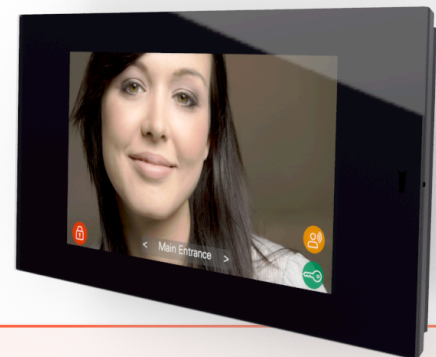
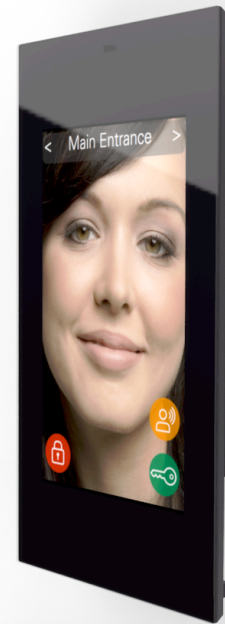
### Keypad-Version

- ❖ Single backlit call button or dialer
- ❖ RGB-backlit touch sensor keypad

# COMMAND CENTER

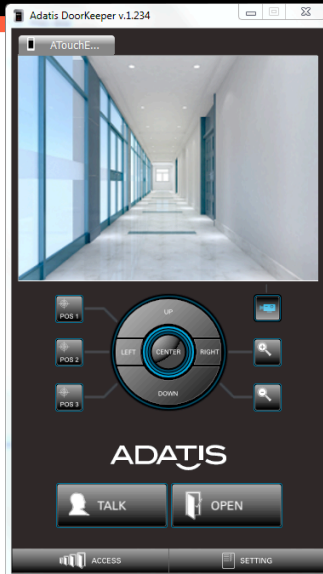
## CommandCenter - Key Features

- ❖ Indoor panel for door communication
- ❖ Surface mount, 15 mm flat
- ❖ Portrait or landscape mounting with automatic screen rotation
- ❖ 6.2" touch screen with PCAP
- ❖ Proximity detection for automatic display on/off function
- ❖ Ambient light sensor for automatic screen brightness
- ❖ Integrated full-duplex acoustic echo cancellation
- ❖ Call history and recordings
- ❖ Web browser configuration
- ❖ Auto-configure in combination with Adatis terminals
- ❖ All wiring is done at the wall holder, unit is clipped on either horizontally or vertically
- ❖ Ambilight with 18 RGB-LEDs as night light or for optical alerts
- ❖ Ethernet 100BASE-TX
- ❖ WLAN / WiFi
- ❖ Power-over-Ethernet (802.3af) (optional)
- ❖ 2Wire connection (optional)
- ❖ Internal Relay
- ❖ Trigger input for local ring button



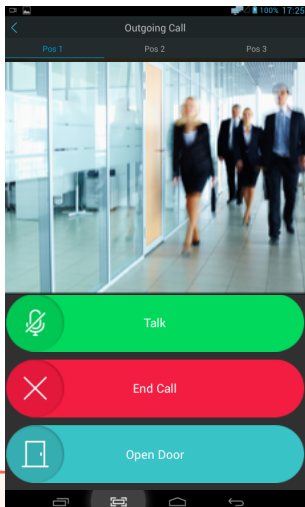


# DOORKEEPER PC / IOS / ANDROID



## DoorKeeper - Common Key Features

- ❖ SIP client for visitor communication and access control
- ❖ Any number of entrances can be attended
- ❖ Supports SIP-video (H.264) and SIP-audio
- ❖ Watch-before-open-operation / early media
- ❖ Remote control of the camera (pan/tilt/zoom)
- ❖ 3 camera preset positions
- ❖ Supports external SIP server for wide area calls (WAN)



## DoorKeeper - APP

- ❖ App for Android (Google PlayStore)
- ❖ App for iOS (Apple AppStore)
- ❖ Adatis hosted cloud (SIP) server
- ❖ Call history with date/time stamp

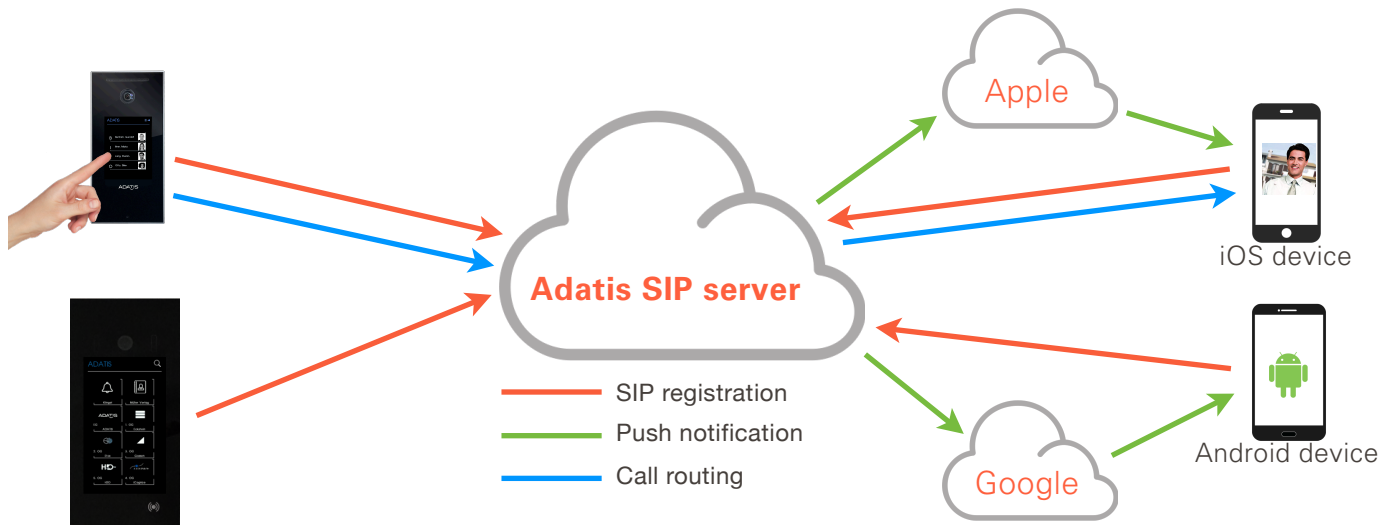
## DoorKeeper - Windows

- ❖ Software for PC (Windows7 / 10)
- ❖ Local calls without a SIP server
- ❖ Runs in the background
- ❖ Minimizes automatically

# CLOUD SIP SERVER

## Mobile Connectivity as a Service

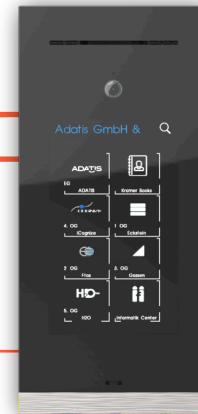
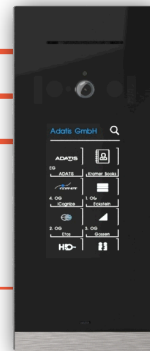
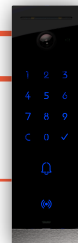
- ❖ Adatis is hosting a cloud SIP server which offers wide area connectivity as a service.
- ❖ Adatis door terminals and mobile devices register with the Adatis SIP server.
- ❖ The Adatis SIP server links door terminals to mobile devices like smart phones and tablets running the Adatis DoorKeeper Apps.
- ❖ The Adatis SIP server uses push-notification in order to wake up or start the DoorKeeper app on the mobile device.
- ❖ The Adatis SIP server is fully SIP compliant, SIP audio, SIP video (H.264), and early media.



# FACEADMIN-AI

## FaceAdmin-AI - Key Features

- ❖ Server for all Adatis terminals: GDPR compliant biometry without templates inside the terminals
- ❖ Facial recognition with Deep Neural Network technology; real time recognition for up to 16 terminals
- ❖ Facial model with 99.38% accuracy on the standard Labeled Faces in the Wild (LFW) benchmark
- ❖ Internal encrypted database for up to 10,000 faces
- ❖ Local or remote facial enrollment
- ❖ Enrollment app for mobile devices (IOS, Android)
- ❖ Adatis terminals connected via LAN (Gigabit Ethernet)
- ❖ Integrated access zones and time schedules for access control
- ❖ Interoperates with access control managements systems
- ❖ 2,9'' E-paper display for status information
- ❖ DIN-rail housing, 6 units wide



# FACEADMIN

## FaceAdmin - Key Features

- ❖ Management server for all door Adatis terminals
- ❖ Operation via web browser, no installation required
- ❖ Same look-and-feel GUI as door stations
- ❖ Server-based online access control with terminals operating in reader mode
- ❖ Synchronizes offline access control data and intercom data with terminal databases
- ❖ Automatic switch-over between online and offline mode
- ❖ Supports Adatis group concept
- ❖ Individual mapping of groups and persons to the terminals
- ❖ Data import from terminals for migration from non-server to server mode operation
- ❖ Available as Rack- (19" 1HU) or Mini-Server
- ❖ SW-license based on number of managed terminals



# IP-IOM / IP-IOX



## IP-IOM

- ❖ IO-Master box
- ❖ 2x relays, C-style
- ❖ 2x optocoupler inputs
- ❖ 1x RS485 half-duplex serial port
- ❖ Built-in web server for configuration
- ❖ Ethernet 100BASE-TX, PoE optional
- ❖ WiFi connection
- ❖ 2Wire interface optional
- ❖ DIN rail housing, 3 units wide

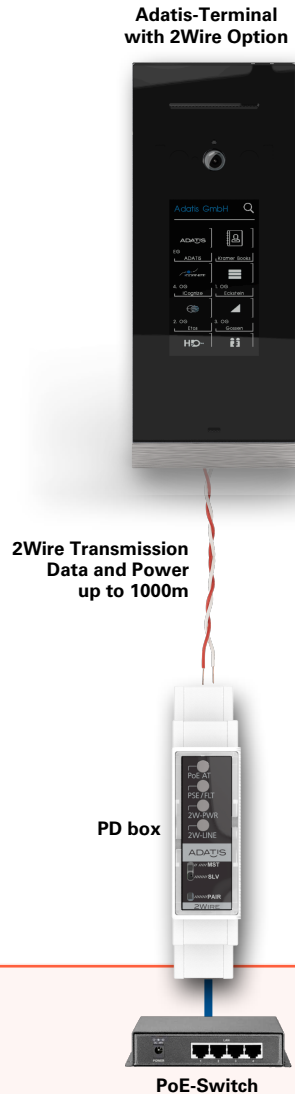
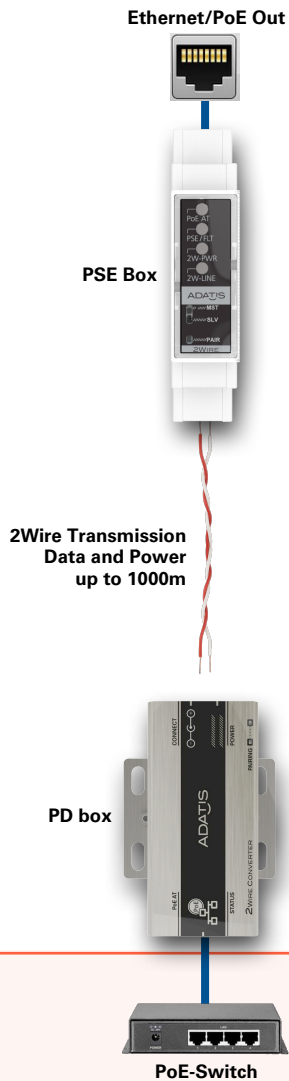
## IP-IOX

- ❖ IO-Extension box
- ❖ connects to the right side of the master box
- ❖ 2x additional relays, C-style
- ❖ 2x additional optocoupler inputs
- ❖ Up to 7 extensions boxes for up to 16 relays and inputs
- ❖ DIN rail housing, 2 units wide

# 2WIRE CONVERTER

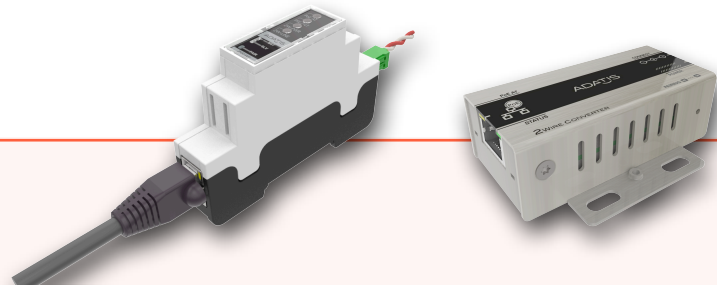
## 2WIRE SET

## 2WIRE OPTION



## 2Wire Converter - Key Features

- ❖ Ethernet via any (voltage-free) wire pair
- ❖ Transmits and receives data and power
- ❖ PD-Box: Input power = Power-over-Ethernet (PoE: 802.3af/at) or 48-56 VDC up to 1A, up to 50W output power via 2Wire line
- ❖ PSE-Box: Input power = 2Wire line (48-56VDC); PoE output (802.3af/at) and 12VDC 0.8A output
- ❖ Transmission over a distance of up to 1000 m and with up to 100 Mbit/s
- ❖ Data is encrypted with AES-128bit
- ❖ Pairing button for automatic password generation
- ❖ FastEthernet interface: 100BASE-TX
- ❖ Bus-topology: up to 16 nodes/terminals on a 2Wire bus
- ❖ 2 housing options: DIN rail housing or stainless steel desktop housing



## Found what you are looking for?

Then get in touch with our sales team at [sales@adatis.com](mailto:sales@adatis.com).

They are happy to answer any questions you may have and send you a personal offer.

## Need more information?

Detailed data sheets, installation manuals and other information on our products are available on our website [www.adatis.com](http://www.adatis.com).

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We are a team of qualified and enthusiastic engineers.

Adatis considers itself as an innovator in the field of facial recognition for access control and door communication via Voice-over-IP. All products, hardware and software, are developed in house.

Adatis offers the following products and solutions:



FACIAL RECOGNITION



ACCESS CONTROL



DOOR INTERCOM VOIP



SERVER

## Our products

- ✓ FaceEntry-XS/-XT/-XL
- ✓ FaceUP
- ✓ CommandCenter
- ✓ IP-IOM/-IOX
- ✓ FaceAdmin
- ✓ DoorKeeper Apps
- ✓ 2Wire Converter
- ✓ Cloud SIP Server

## Our solutions

- ✓ MDUs and private homes intercom & access control
- ✓ Company/campus intercom & access control
- ✓ 3D Facial recognition
- ✓ Deep Learning Server

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