SOLARENA
ENGINEERING

# Wired Automation Systems



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# Wired
# Automation Systems

## Overview

**A wired home automation system provides centralized and dependable control of essential building functions through a dedicated communication cable.**
**It integrates lighting, climate control, curtains, security, energy management, and other connected systems into one coordinated platform.**
**Core functions can operate locally without depending on Wi-Fi or continuous internet access.**





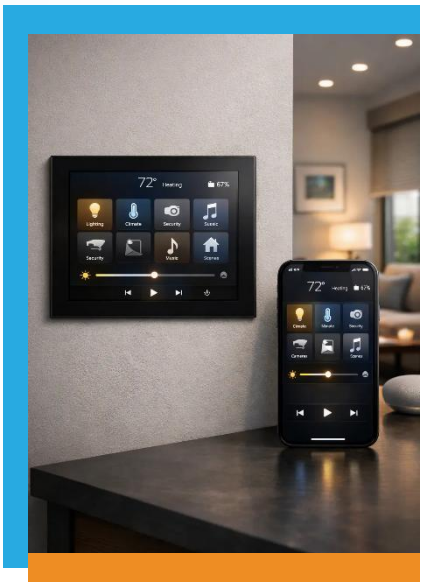
## Features:

- **Dedicated wired communication for stable system performance.**
- **Centralized control of multiple home and building functions.**
- **Local operation of essential functions without internet dependency.**
- **Individual room, zone, or whole-property control.**
- **Custom scenes combining lighting, climate, curtains, and other functions.**
- **Control through wall switches, touch panels, sensors, schedules, and mobile applications.**
- **Scalable architecture that can accommodate future system expansion.**
- **Integration of products from different manufacturers when using an open standard such as KNX.**
- **Reduced dependence on wireless signal coverage.**
- **Professional programming tailored to the property and user requirements.**

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## Applications

- **Smart villas, apartments, hotels, offices, and commercial buildings.**
- **Integrated control of lighting, climate, curtains, security, energy, and entertainment systems.**
- **Best suited for new construction and major renovation project**



## Specifications:

- **Architecture:** Wired, centralized or distributed automation.
- **Communication:** Dedicated control bus or structured cabling.
- **Typical standard:** KNX or another project-specified automation platform.
- **Main components:** Power supply, sensors, switches, actuators, controllers, interfaces, and gateways.
- **Controls:** Wall switches, touch panels, sensors, schedules, mobile applications, and compatible voice interfaces.
- **Integrated functions**: Lighting, HVAC, curtains, security status, energy monitoring, and audio-visual systems.
- **Installation:** Concealed cabling with centralized distribution panels.
- **Best suited for:** New buildings and properties undergoing major renovation.
- **Design requirement:** Final system architecture, devices, cabling, and programming are selected according to the project requirements

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