

INTEGRATING AI IN SMART BUILDINGS

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DESIGNING, REGULATING, AND OPERATING TOMORROW'S INFRASTRUCTURE

As modern infrastructure evolves towards greater connectivity, sustainability, and user-centric design, the demand for intelligent, efficient, and seamlessly integrated building systems has never been higher.

In this exclusive Avnet Silica webinar, we bring together leading technology providers from **Micron, MPS, Nordic Semiconductor, Safesquare, STMicroelectronics, and Tria Technologies** to examine the latest developments shaping smart building design, management, and operation.

From embedded control platforms and advanced sensing to secure automation standards and ultra-efficient lighting systems, our speakers will present:

- Practical approaches to meeting the EU Green Building Directive
- Embedded hardware and connectivity solutions for building control
- Video security architectures with optimised memory and storage strategies
- IoT-capable platforms for open building automation standards such as BACnet and LON
- Edge-based processing for energy optimisation, user interaction, and predictive maintenance
- High-efficiency lighting and power solutions for automation and control

Whether you are developing for commercial, industrial, or residential applications, this webinar will provide valuable technical insights and practical examples to support the design of reliable, efficient, and future-ready building systems.

At the end of each session, you'll have the opportunity to ask questions directly to our experts during a dedicated Q&A. If you can't join us live, simply register in advance and access the sessions on-demand at a time that suits you.

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DATES:

24th – 25th September

PARTNER:



INTEGRATING AI IN SMART BUILDINGS

Day 1 – 24 September 2025

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09:30 CEST – Smart Building Introduction (Avnet Silica)

Presenter: Ivano Carlo Buttironi – Segment Manager Smart City EMEA

Overview of current approaches to smart building design, operation, and energy management. The session includes a summary of the EU Green Building Directive and examples of how smart lighting systems are applied to improve efficiency, comfort, and automation.

09:35 CEST – STM32 Solutions for Smart Buildings (STMicroelectronics)

Presenter: Carsten Sbick – Technical Marketing Principal Engineer

Presentation of STM32 microcontroller and microprocessor options for smart building systems. The session covers capabilities for sensing, control, and connectivity, with examples of how these devices can be integrated into building management and automation platforms.

10:20 CEST – Video Security Solutions for Smart Buildings (Micron)

Presenter: Joey Lin – Senior Segment Marketing Manager

Discussion of video security systems in building environments, including application examples and market trends. The session also reviews storage and memory requirements when processing and managing large volumes of video data.

11:10 CEST – Babi-LON for Building Automation (Safesquare)

Presenter: Martin Mentzel – CEO & Managing Director

Explanation of the Babi-LON platform for developing IoT-capable devices in open building automation systems. The session covers integration with local and building-wide networks, compatibility with BACnet and LON standards, and options for modernising existing installations without rewiring.

Day 2 – 25 September 2025

09:30 CEST – TinyML and Embedded Processing in Smart Buildings (Nordic Semiconductor)

Presenter: Danil Zharebtsov – Head of ML & Analytics at Neuton

Overview of use cases where embedded models are applied for building management tasks such as energy optimisation, user interaction, and system maintenance. Topics include prediction of energy consumption and generation, gesture-based controls, and on-device fault detection.

10:20 CEST – Embedded Platforms for Building Systems (Tria Technologies)

Presenter: Bevan Braude – Manager Vertical Markets

Overview of embedded hardware used in building systems, from compact System-on-Modules to larger human-machine interface platforms. The session addresses how these devices can be selected and configured to meet processing and design requirements.

11:10 CEST – Power Solutions for Lighting and Automation (MPS)

Presenters: Valentine Mih – Business Development Manager, AC/DC, and Nicolas Cyr – MPS Europe Field Application Manager

This session covers three Monolithic Power Systems products designed for building automation applications. The MP183 enables ultra-low standby power consumption in home automation lighting systems while reducing overall component cost. The MPXP0900 is developed to improve the operating life of electric roller shutters. The MPXG2100 is an all-in-one solution that increases output power for USB wall socket designs, supporting higher performance in compact formats.