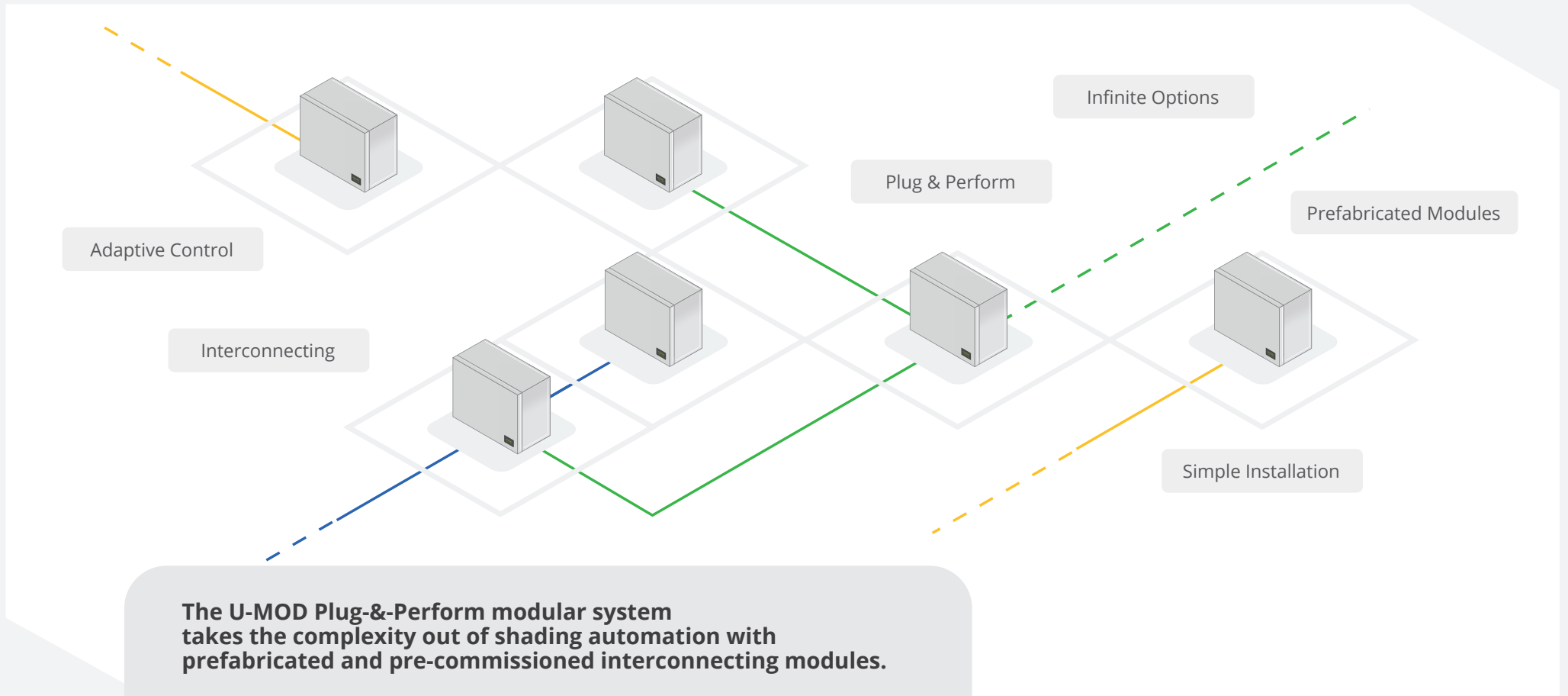


U-MOD Shading Automation

Ready Assembled and Pre-commissioned
for Easy Installation (Plug & Perform)

U-MOD™



vasatec®
contract shading

U-MOD - An Interconnecting Modular System

U-MOD offers a faster, easier and tested approach to shading automation. Each prefabricated module serves a different purpose in a U-MOD shading automation configuration setup, and once connected, options are infinite and scalable.

Acting as an interconnecting tile system, U-MOD starts from a central control server or field control server module (depending on building size), as the brains of the automation configuration.

Shading field control modules are then connected, enabling all levels of connection, integration, and scalability. By adding logic and connection modules, additional shading automation commands can be realised, such as dynamic sun-tracking, adaptive zone response, and building integration.

U-MOD offers a new approach to shading automation - ready assembled, pre-commissioned and tested for simple plug-and-perform installation. All modules are compatible with each other and can communicate over a backbone (Ethernet IP) to a FCS or CCS.

Field Control Modules:

→ Operation of shading motors/devices.

Field & Central Control Server Modules:

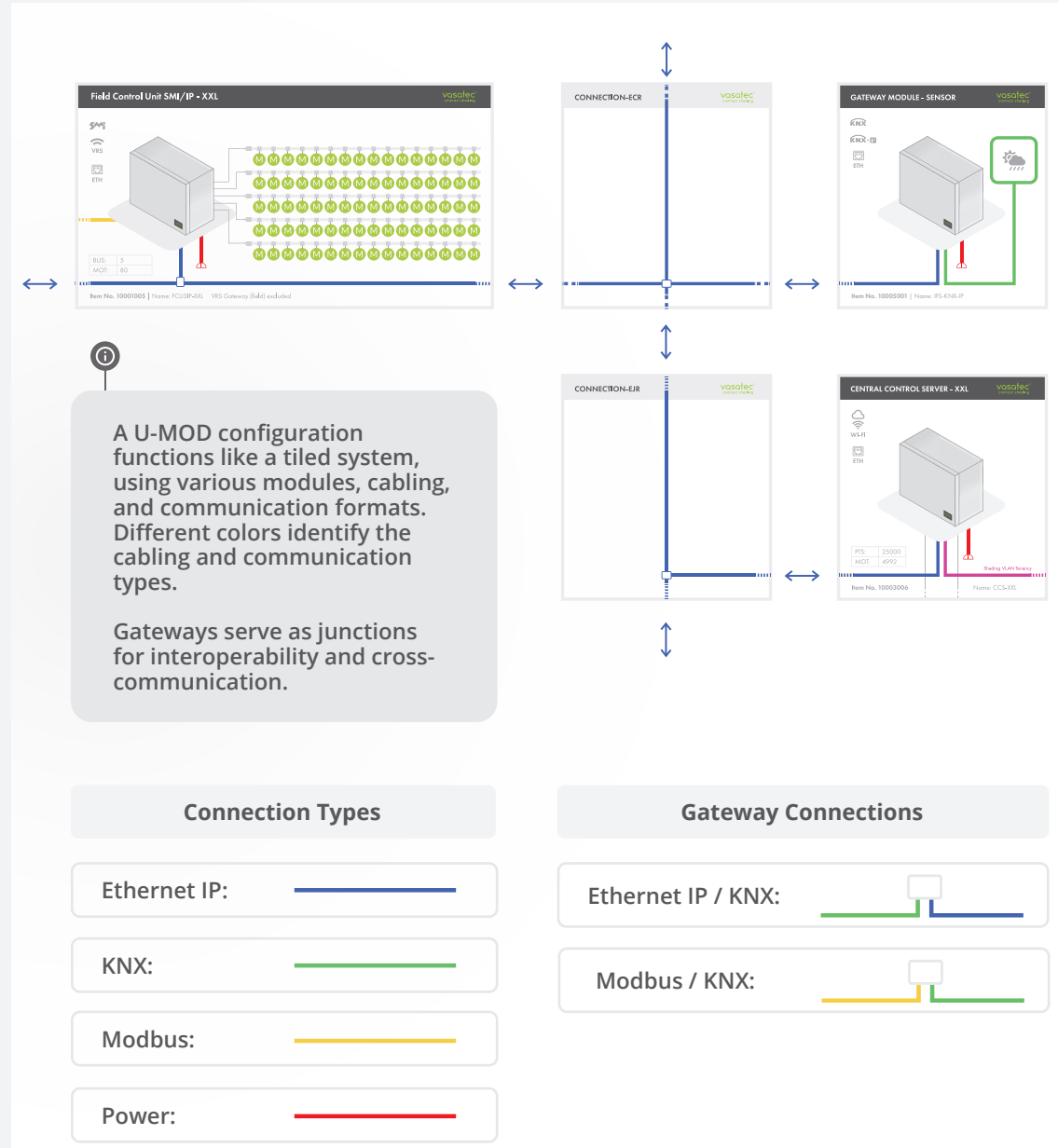
→ Operation of field control modules.

Add-on Logic and Connection Modules:

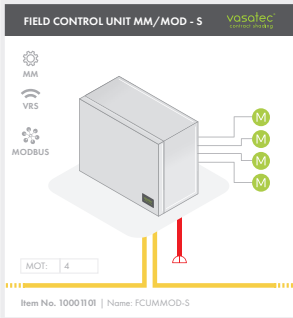
→ Added functionality to field and central control modules.

User Interface dashboards:

→ U-MOD facility management and tenant dashboards.

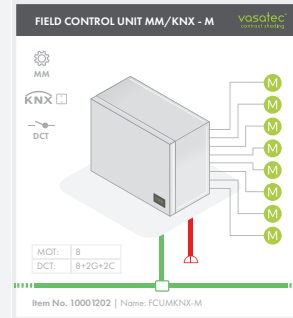


Field Control Units - Conventional - Mechanical Motors



MM/MOD

- S (4), M (8), L (12) Mechanical Motors
- VRS Compatible
- Modbus Communication

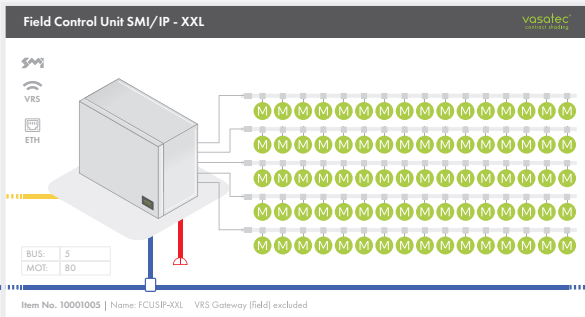


MM/KNX

- S (4), M (8) Mechanical Motors
- KNX Communication

Note - both fully compatible with all components of the U-MOD range.

Field Control Units - Digital SMI Motors



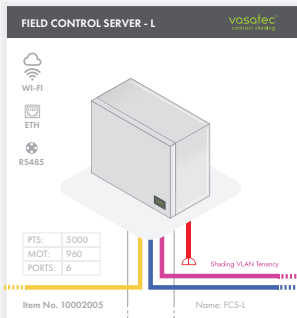
SMI/ IP - S, M, L, XL, XXL

- From 16 (S) to 80 (XXL) SMI Motors.
- Plugged power distribution from 1 to 5 SMI BUS-Segments.
- IP connection to building backbone (Ethernet).
- VRS Compatible.



U-MOD digital SMI motor field control units offer the connection of up to 80 motors using the XXL module with BUSbar cabling. This module alone greatly reduces cabling and connection points for a more simplified configuration.

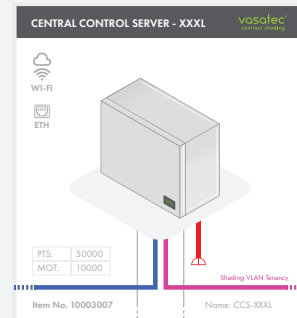
Field Control Servers



XS, S, M, L

- Field Control Server - 40 to 960 motors.
- Cloud connection for remote management.
- RS485 connectivity and IP connection to building backbone (Ethernet).

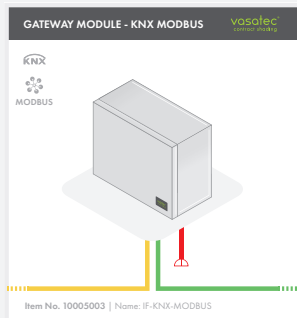
Central Control Servers



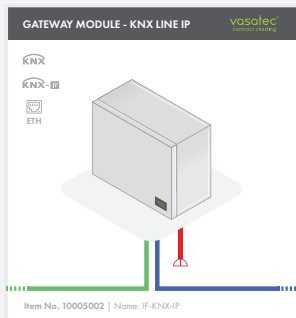
XS, S, M, L

- Central Control server for 96 to 10,000 motors.
- Logic/Function Control Engine.
- Cloud connection for remote management.
- IP connection to building backbone (Ethernet).
- Compatible with all Vasatec U-MOD Control Modules.

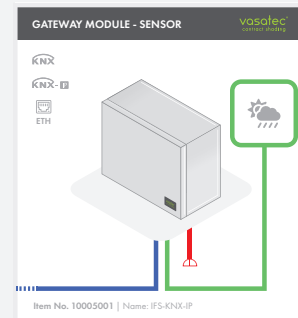
Gateway Modules



IF-MOD-KNX



IF-KNX-IP

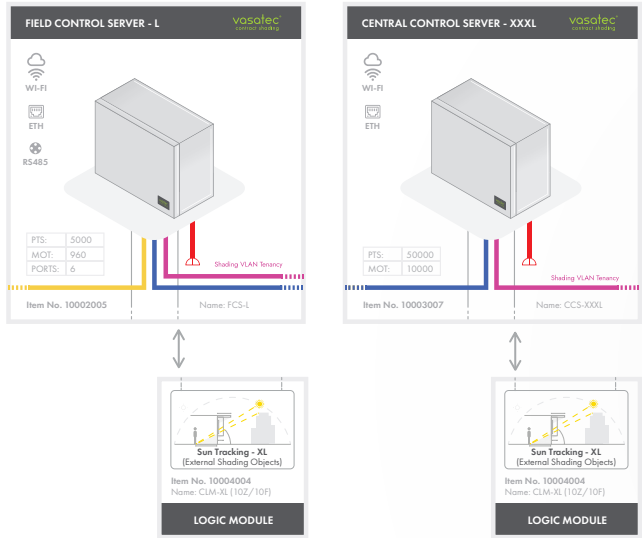


IFS-KNX-IP

- Sensor Connection

Gateways interconnect different cabling types for cross communication.

Connection Modules / Logic Modules / Interface Modules



i Add-on modules are applications added to field and central control servers. This is where the brains of the configuration set-up are loaded with functionality.

Logic modules provide shading automation commands such as dynamic sun-tracking and adaptive zone response.

Connection modules are sensor and communication connections.

Interface modules are the user interface operation by facility managers and tenants.

Sun Tracking - XL
(External Shading Objects)

Item No. 10004004
Name: CLM-XL (10Z/10F)

LOGIC MODULE

Logic Modules

- Sun-tracking – S, M, L, XL + Add-On options.
- Dynamic Schedules.
- Command Override.
- Adaptive Zones.
- Indirect glare module.
- Custom Logic.

Sensor Module
Additional Modules

Item No. 10004010
Name: CLM-SENS-ADD

CONNECTION MODULE

Connection Modules

- Sensor Modules.
- Communication Modules.
- Remote Access.
- 3rd Party API.

FM Dashboard
L + Data Analytics Basic

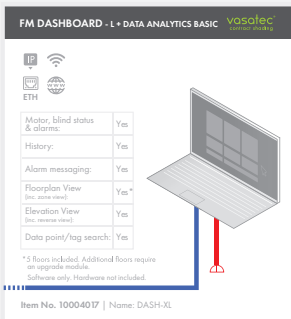
Item No. 10004017
Name: DASH-XL

INTERFACE MODULE

Interface Modules

- FM Dashboard – XS, XS+, S, M, L, XL
- Tenant Control Surface – Basic, Advanced.

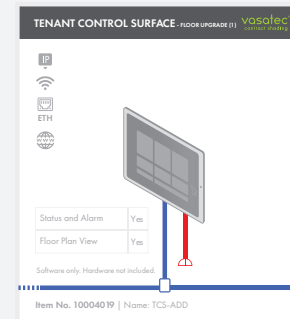
Facility Management Dashboard



XS, S, M, L, XL

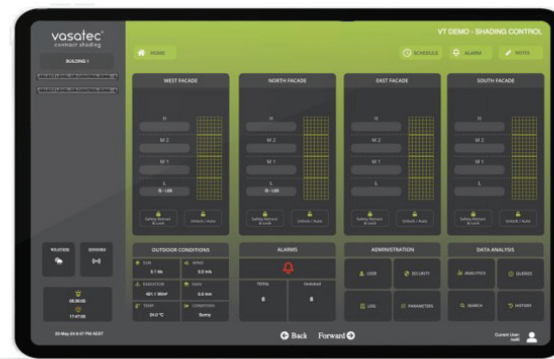
- XS:** Status and alarms.
- S:** Status, alarms + history.
- M:** Status, alarms, history + floor plans.
- L:** Status, alarms, history, floor plans + elevation view
- XL:** Status, alarms, history, floor plans, elevation view + data analytics (basic)

Tenant Control Surface



Base and Add-On

- Local floor plan based control.
- Base = status and alarms.
- Base = floor plan view.
- Base = 5 floors
- Add-On = additional floors per building



The facility building control interface provides access to the buildings U-MOD shading automation functionality. All commands and schedules can be adjusted from the user-friendly interface.

The tenant control interface provides users with direct access for individual operation of blinds as required.

User Friendly Interface

- Simple to Use Layout.
- User Focused.
- Quick Access for Location and Function.
- Vasatec In-House Developed.

Building Overview

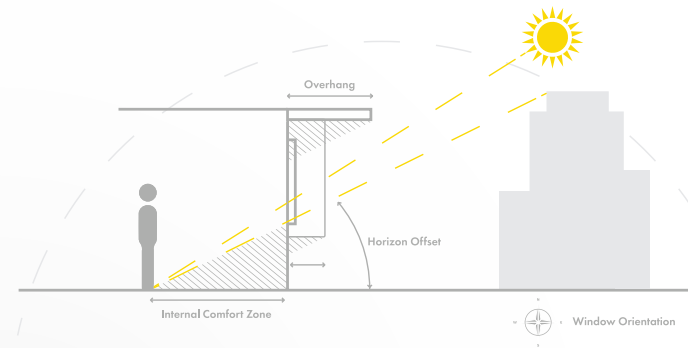
- Comprehensive Overview of Building Operations.
- Quick Access to Safety Functions.
- Direct Access to Floor and Device Status.
- Elevation View Access.

Elevation Views

- Interior View Looking Out.
- Exterior View Looking In (Façade).
- Reverse View Function (Click to Switch View).
- Supports Commissioning and Blind Adjustment.

History / Analytics / Building Information

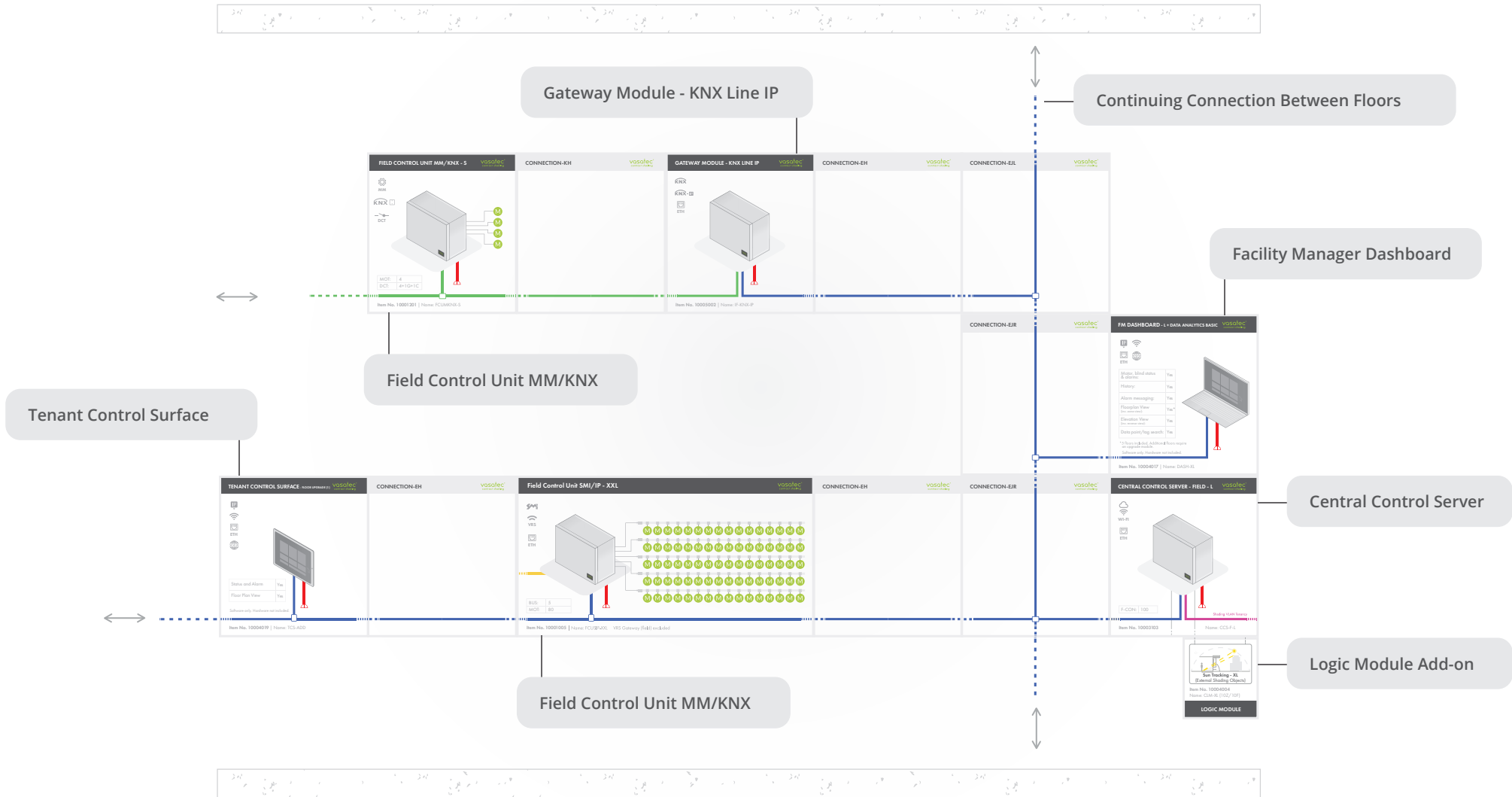
- Sun-Tracking.
- Weather Sensors.
- Scheduling.
- Parameter Setup Functionality.
- Quick Access Mode.
- Analysis Showing Building Histories.
- Every Setting Has a History.
- Justification on Functional Claims.
- In-Depth Failure Analysis and Performance Claims.
- Operational Effectiveness.
- Sun Simulator



U-MOD sun-tracking delivers responsive control based on the desired settings for optimum glare and sun shading automation.



The Sun Sim tests parameters (x4) before activation. This unique U-MOD function works in real time and set to the geographical coordinates of a building anywhere in the world



U-MOD Support

Vasatec develops U-MOD configurations as a standard part of the planning process in collaboration with you. The level of integration and functionality is discussed in detail to ensure the most effective shading automation is achieved, using the most efficient and cost-effective combination of modules.

We are technical shading automation specialists with decades of expertise in delivering solutions for projects of all sizes.

Working with Vasatec

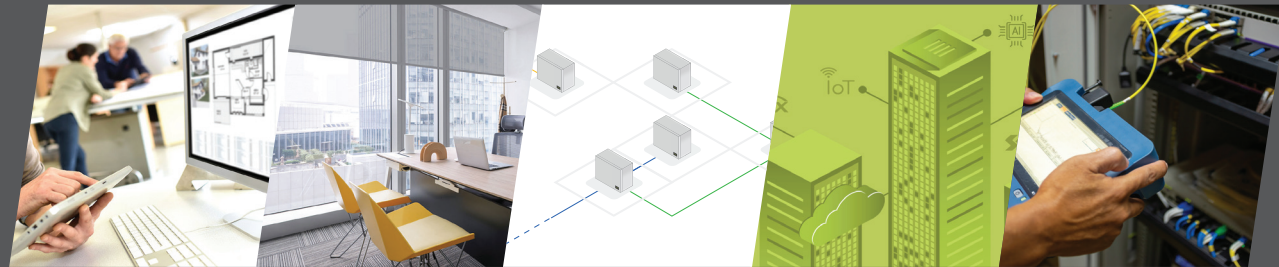
Vasatec is an independent consultant, manufacturer and supplier for project shading and automation. We are vertically integrated, delivering an all-inclusive end-to-end service delivered as one.

From initial planning and product selection to delivery, installation, and operation, our comprehensive solutions cater to new builds, refurbishments, and existing buildings.

U-MOD™

All-inclusive project shading solutions

- ✓ Project Design | Planning | Project Management
- ✓ Shading Systems
- ✓ Automation | Integration
- ✓ Installation
- ✓ Service and Support



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