MITSUBISHI ELECTRIC
FACTORY AUTOMATION

STlite

Remote Inputs and Outputs

I/Os for open networks –
versatile, space-saving and flexible
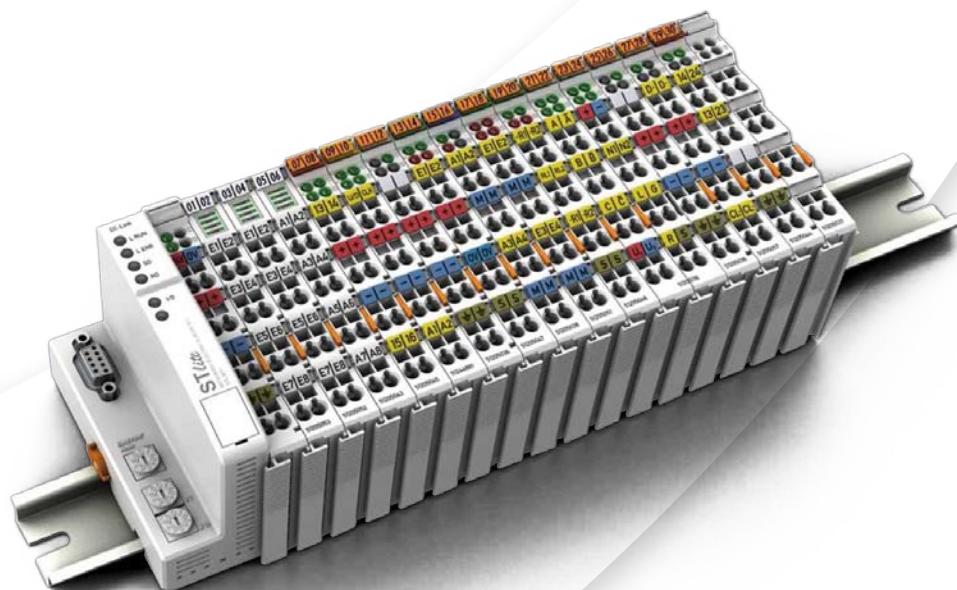
MORE FREEDOM — Combining these modules with other open network components provides maximum flexibility in system configuration

ECO-NOMICAL — The modular design means that there is always the right number of inputs and outputs in the right place

COMPRE-HENSIVE — A large choice of different I/O modules (compatible with Wago 750) fulfils all application requirements

Versatile and flexible

The I/O modules of the STlite range offer excellent reliability even under harsh ambient conditions.

The STlite series has been approved for a wide range of applications, and with its fine modularity and fieldbus-independent design is particularly suitable for the requirements of remote fieldbus systems. It has been optimised for process-oriented communication - with scalable performance and high integration density.

I/O for every application

■ Fine modularity

The separate head station and I/O modules make for easy handling and maximum efficiency. Modules can be replaced more quickly and more easily thanks to the fine modularity of the design. Further I/O points can be added at will. At the same time, a remote I/O station can be implemented with just two channels.

■ Large choice of I/O modules

The number of possible applications which can be realised with the STlite series is virtually unlimited thanks to the many types of I/O available. As well as digital and analog inputs and outputs, these also include modules with SSI or incremental encoder interface, up/down counters and a PT100/RTD module.

■ High flexibility

Optional configurations of digital/analog inputs/outputs and special functions with different potentials, performance and signals on one fieldbus node lend the STlite a high degree of flexibility.

■ Reliable operation

Handling is simplified by the automatic connection of power and data contacts and a plug-in connection plane using a bus plug connector. Inputs and outputs are connected by means of spring terminals from the proven CAGE CLAMP® system.


Quick and reliable connection thanks to self-cleaning tinned contacts

■ Fieldbus independent

The basic modular concept of the system is also reflected in its support for numerous fieldbus systems. There is a choice of different fieldbus head stations for different protocols depending on the application. Header modules are currently available for the CC-Link, Modbus TCP and Profibus open networks. The STlite series therefore provides a perfect basis for demanding applications. System components from third-party manufacturers can also be incorporated without difficulty.

■ Secure investment

The fieldbus-independent node design enables you to easily switch to new bus standards. In doing so, the I/O modules can be retained for other applications.
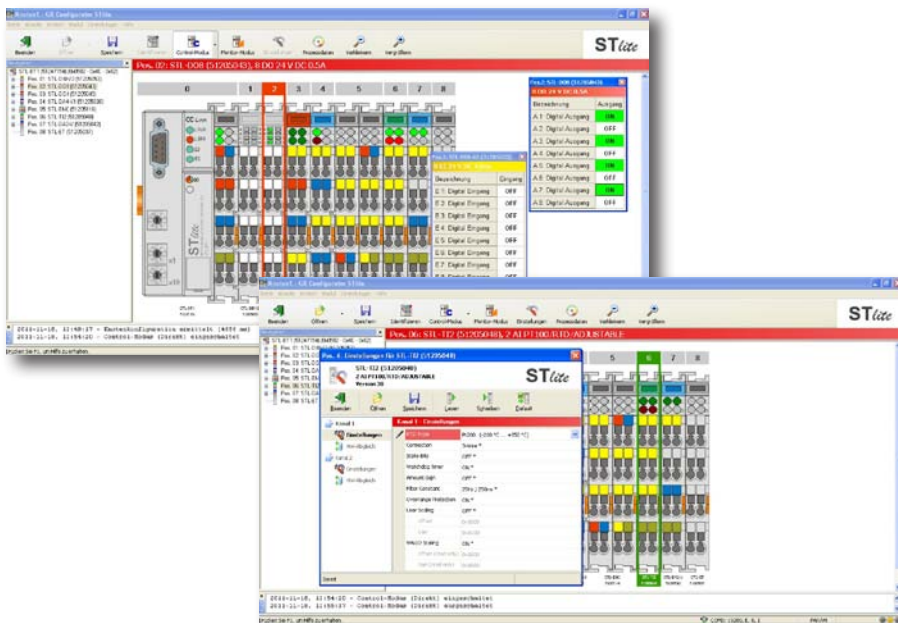
Easy and efficient configuration with GX Configurator STlite.

Head stations are available for different fieldbus systems

Fast and efficient configuration

The powerful GX Configurator STlite software package is available for parameterising all head stations and I/O modules in the STlite series. This enables a complete STlite I/O system to be easily and efficiently configured in just a few minutes. The software is user-friendly and enables even newcomers to become quickly familiar with the system.

GX Configurator STlite is an easy-to-use Windows application for setting up and representing a node without needing to connect the node to a fieldbus system. The software reads the configuration from the node and displays it graphically on the screen. The graphical display can be printed out together with a configuration list to form the documentation.

GX Configurator STlite enables you to display and specify the process data for individual bus terminals. It also enables you to check the field wiring, including all sensors and actuators, and quickly localise any faults at the commissioning stage.

Application-specific settings, such as the baud rate selection or the type of sensor, can be made for certain interface, PT100/RTD and thermocouple modules.

GX Configurator STlite communicates with the node by means of a communications cable connected from the coupler to a free serial or USB port on the PC.

Overview and specifications ///

ST series and STlite

The established and well proven ST series continues to be available along with the STlite series. The table below gives a comparison of the two ranges. You will find further information on our website www.mitsubishi-automation.com and in the current "Automation Book" product catalogue.

Input/output modules	STlite	ST
Supported networks	CC-Link, Profibus DP, Ethernet	CC-Link, Profibus DP
Maximum number of I/O stations per network	CC-Link: 42 (remote I/O stations), Profibus DP: 99 (max. 32 per segment), Ethernet: limited by Ethernet specification	CC-Link: 42 (remote I/O stations), Profibus DP: 99 (max. 32 per segment)
Maximum number of STlite I/O modules per station	63	63
Maximum number of digital inputs and outputs per station	CC-Link: 14 bytes in, 14 bytes out; Profibus: 32 bytes in, 32 bytes out; Ethernet: 1020 words in, 1020 words out	252
Maximum number of analog inputs and outputs per station	CC-Link: 32 bytes in, 32 bytes out; Profibus: 32 bytes in, 32 bytes out; Ethernet: 1020 words in, 1020 words out	52
Number of inputs or outputs on the available modules	2, 4 or 8 I/O points	2, 4, 16 or 32 I/O points
Suitable sensors (digital inputs)	Source type transducers	Source type transducers
Output types (digital outputs)	Transistor (source type), relay	Transistor (source type), relay
Suitable sensors (analog inputs)	Voltage, current, thermocouple, resistance thermometer	Voltage, current, thermocouple, resistance thermometer
Analog outputs	Voltage, current	Voltage, current
Special function modules available	Incremental encoder, absolute value module with SSI encoder interface, up/down counter, PT100/RTD temperature module	Absolute value module with SSI encoder interface
Power supply	24 V DC	24 V DC
Connection	Spring terminals from the CAGE CLAMP® system	Spring terminals, screw terminals
Additional items	Terminal labels, potential markers, WSB markers	Terminal labels, potential markers, screen termination for screened cables
Accessories	STlite can be expanded using any Wago 750-series modules	—

Version check