







Simplifier Gateway Profisafe and Simplifier system



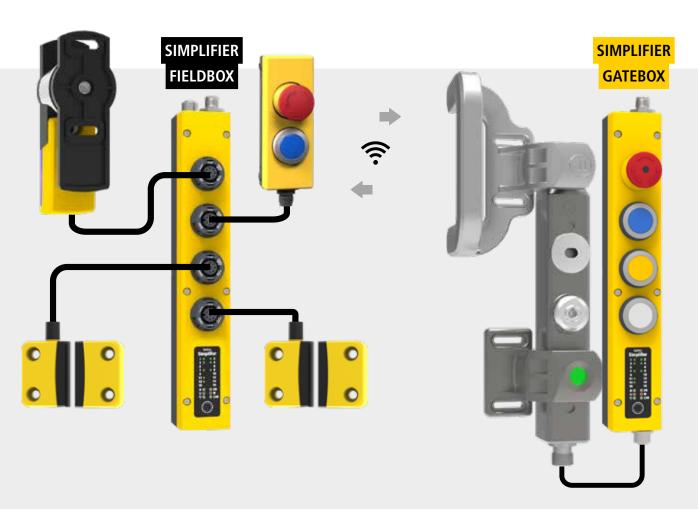


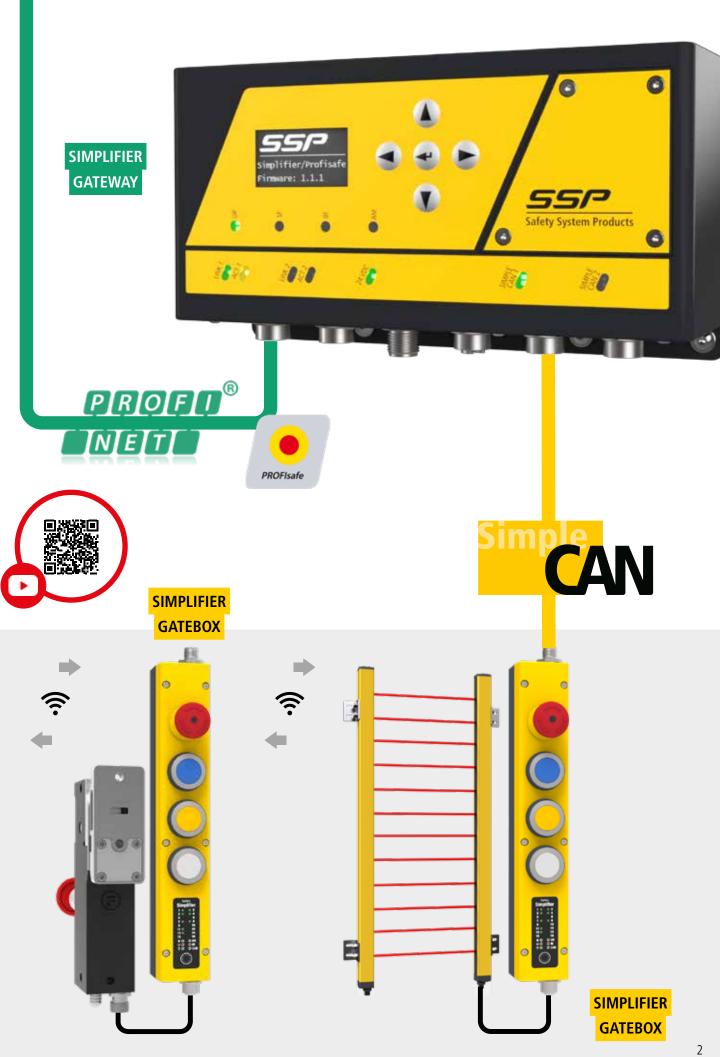
The best of two worlds

Wireless safety meets safe bus systems

The Simplifier system is a flexible solution for various safety applications. Thanks to wireless communication and the integration of the PROFIsafe bus, the system enables the protection of doors, hatches, lifting gates and many more. Easy installation, seamless integration and flexible customization makes the system the perfect choice. A Simplifier Gateway can connect up to 32 Simplifier devices with the Siemens control system via PROFIsafe.

- ✓ A wide variety of safety functions can be integrated independently of the system
- ✓ Less planning and design work thanks to plug & play
- \checkmark Programming of all safety functions centrally in the Siemens control system or in Simplifier Manager
- ✓ Low wiring effort thanks to safe wireless or CAN communication
- ✓ Modular and expandable for safety switches, safety light curtains, I/O modules, push-button boxes and much more
- \checkmark Both Simpflifier devices and the Gateway can be placed outside the electrical cabinet





The Simplifier System

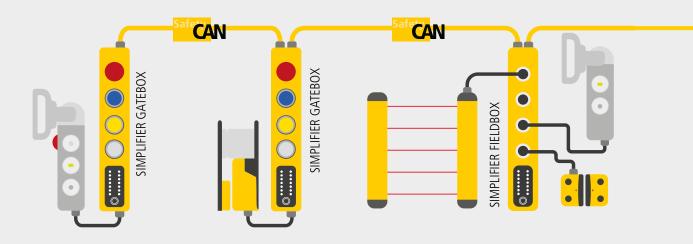
Two types of safety communication

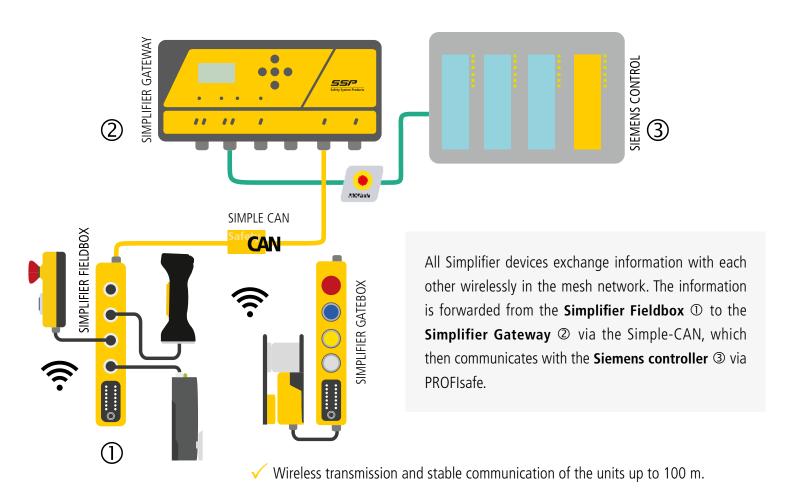
1 | WIRELESS COMMUNICATION

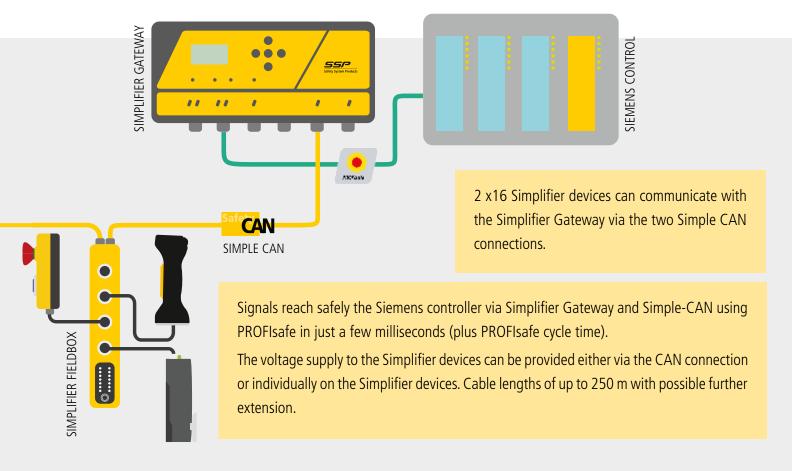


Indepedantly of CAN or wireless safety, all information reaches the Siemens controller via the Simplifier Gateway on PROFIsafe and can be programmed and managed centrally in the TIA programming software.

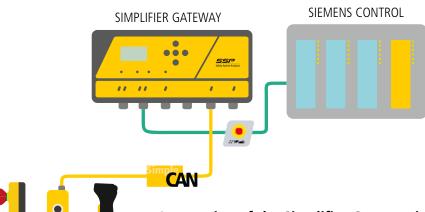
2 | CAN COMMUNICATION







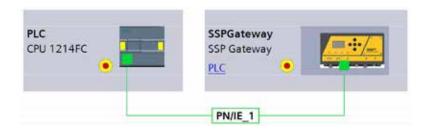
Siemens integration



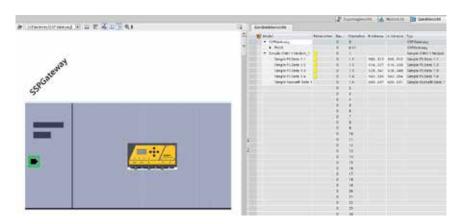
Integration of the Simplifier Gateway in the TIA Portal.

When integrating the Simplifier Gateway into an existing project, the GSDML file should be installed first. A Simplifier Gateway is then added in the hardware configuration.

The new PROFIsafe device can now be connected to the master PLC using drag & drop.

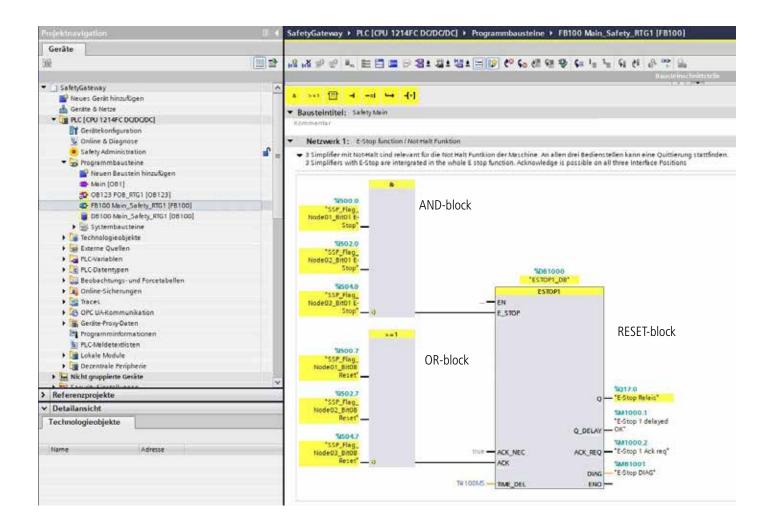


The data areas can be added to the device overview using drag & drop. In our example, only module_1 is shown, which already provides 64-bit information.

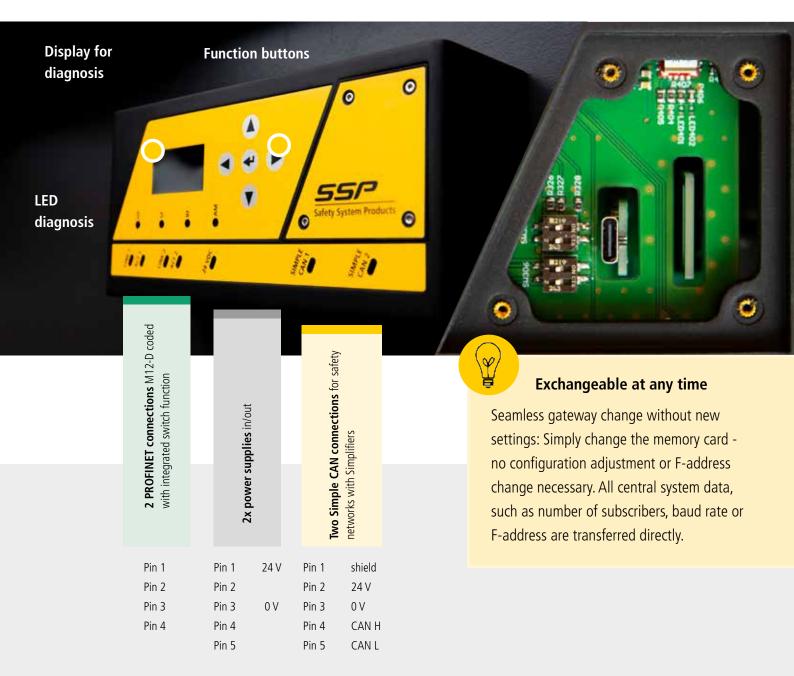


The safe function blocks are configured in the next step. The safe signals from the Simplifier Gateway can be processed there.

The example below shows an emergency stop function with signals from 3 Simplifiers. Each Simplifier sends an emergy stop signal and a reset signal. The three emergency stop button signals are linked via an AND module and the three RESET button signals are linked via an OR module. The signals then go accordingly to the RESET module provided by Siemens.



Simplifier Gateway



Different connections for the perfect application

- ✓ Voltage supply via M12-A coded plugs on CAN cable up to max. 4 A
- ✓ Voltage supply by means of M12-L coded plugs up to max. 16 A
- ✓ Ethernet / voltage supply with and without daisy chain option

The Simplifier devices can be supplied with operating voltage via the Simple CAN connection or individually to each device. Extra operating voltage if needed.

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