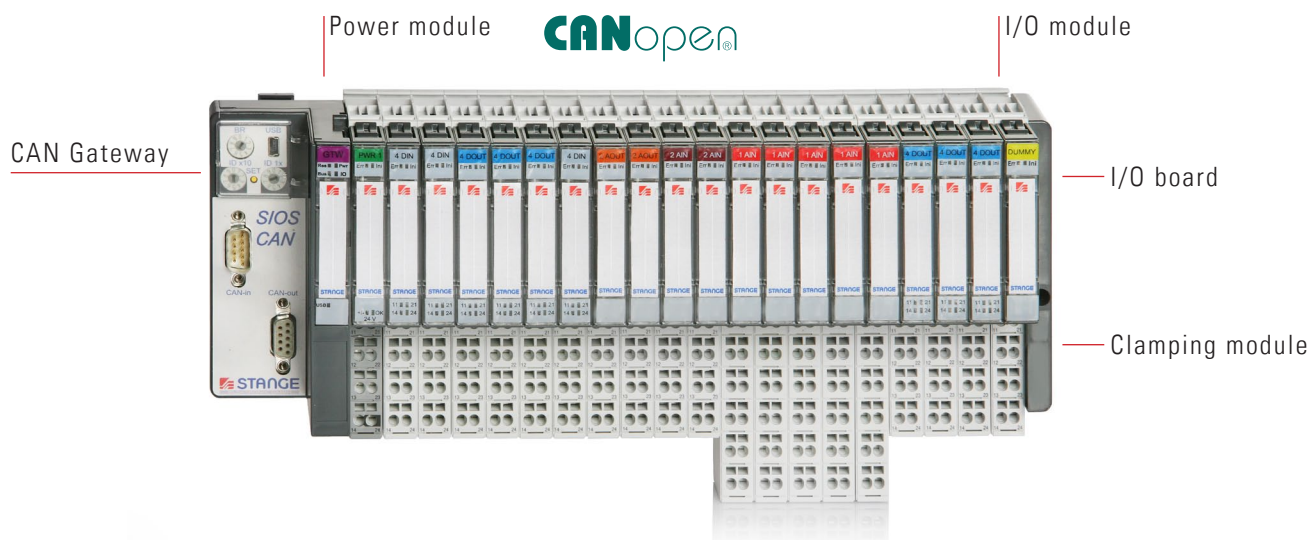


# SIOS Peripherals

Remote STANGE I/O-System



## SIOS STANGE Input/Output System

SIOS is a flexibly configured remote CAN peripheral device, adaptable to application, intelligent and future proof.

A SIOS peripheral consists of at least one CAN gateway and one power module. The gateway and further I/O modules are powered by the first power module.

SIOS modules consist of an I/O card and clamping module for wiring. Wiring takes place without tools via spring contacts. The modules are hot-swappable and can therefore be changed when energized. The interchanging of modules is impossible due to the mechanical coding.

There are SIOS gateways with different bus systems: SIOS-CAN as CAN bus systems and SIOS-TCPIP as an Ethernet bus system (in progress).

A node consists of a maximum of 64 modules. The maximum number of nodes is 99. Because of the large number of nodes and the maximum number of 64 modules, the complete CANopen protocol can be utilized fully. Up to 25,344 digital I/Os or analogue values can be used in the maximum configuration per network, limited to one type of module.

SIOS Features:

- Flexibly configured remote CAN peripheral device
- A peripheral consists of one CAN gateway and one power module
- Adjustment of desired digital/analogue I/Os by expandable I/O modules (maximum of 64 modules), consisting of I/O card and clamping module
- Spring-type terminal wiring
- Modules are hot-swappable and can therefore be changed when energized
- Interchanging of the I/O cards impossible due to mechanical coding

Technical Data SIOS		
Type	Module	Specification
SIOS-CAN	SIOS GATEWAY	<p>Flexibly usable with up to 64 modules            CANopen protocol            Baud rates: 20 kB, 50 kB, 100 kB, 125 kB, 250 kB, 500 kB, 1 Mbaud            CAN connection, galvanically isolated            LED state for CAN communication, IO field communication, energy supply            Incl. power module SIOS PWRG            Housing: 113 x 51 x 73 mm CAN gateway</p>
SIOS-PWRG SIOS-PWR	Supply Module	<p>Internal power supply for modules            Input voltage: 24V DC (reverse polarity protected)            Power supply of max. 16 modules (incl. power module)            Modul options:            - SIOS-PWRG (for gateway supply and the first 16 modules)            - SIOS-PWR supply module (supply further 16 modules incl. power module)            Dimensions with module: 128 x 12.7 x 74 mm</p>
SIOS-DI4	4 Digital Inputs	<p>Input voltage: 5 ... 24 V for active level            Input voltage with active level: approx. 3 mA            Galvanically isolated to internal field (max. 500 V)            (no separation of inputs among each other)            Dimensions with module: 128 x 12.7 x 74 mm</p>
SIOS-DO4	4 Digital Outputs	<p>Supply voltage outputs: 7 ... 24 V            Output current: max. 700 mA            Short-circuit proof outputs            Galvanically isolated to internal field (max. 500 V)            (no separation of outputs among each other)            Dimensions with module: 128 x 12.7 x 74 mm</p>
SIOS-DAC2	2 Analogue Outputs	<p>Configurable as 0 - 10 V, 0 - 20 mA or 4 - 20 mA            12 Bit resolution            Output accuracy: better than 0.1% from the end of the range            Current output: max. burden 500 Ohm            Voltage output: min. burden 2 KOhm            Galvanically isolated to internal field (max. 500 V)            (no separation of outputs among each other)            Dimensions with module: 128 x 12.7 x 74 mm</p>
SIOS-IW1-XL	1 Universal Analogue Input	<p>Galvanically isolated to internal Bus (max. 500 V)            Thermocouples, PT100, PT1000, potentiometer (max. 4 k<math>\Omega</math>)            18 Bit resolution            Accuracy: better than 0.1% from the end of the range            Measuring cycle per thermocouple or standard signal approx. 60ms            Dimensions with module: 154 x 12.7 x 74 mm</p>
SIOS-IW2	2 Analogue Inputs (standard signal)	<p>0 - 10 V, 0 - 20 mA, 4 - 20 mA            Accuracy: better than 0.1% from the end of the range            Measuring cycle per input approx. 40 ms            18 Bit resolution            Galvanically isolated to internal Bus (max. 500 V)            (no separation of inputs among each other)            Dimensions with module: 128 x 12.7 x 74 mm</p>