

PRODUCT CATALOG 2026

• HARDWARE • INDUSTRIAL AUTOMATION •



MADE IN MAGDEBURG SINCE 1997

THORXIS
TECHNOLOGIES



INDUSTRIAL AUTOMATION

HARDWARE PRODUCTS

USB ADAPTER



ETHERNET GATEWAYS



DIAGNOSTIC TOOLS



SERVICES



LAWS, DIRECTIVES, STANDARDS

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1.1 isNet Lite

Ethernet Communication Module

The isNet Lite is an Ethernet gateway in a compact modular housing. It can be used for multiple purposes of remote monitoring and control. Depending on the application the isNet Lite is always used together with one or more fieldbus modules, where the isNet Lite is always the head module. Up to five different fieldbus modules can be connected, the modules can be freely combined. The modules are intended for use in industrial environments, they are mounted on a DIN rail, fans were deliberately omitted.

On Ethernet, the module supports the protocols PROFINET, Modbus TCP and HART over IP. Along with the various fieldbus modules, almost any gateway such as PROFINET to PROFIBUS PA, HART to Modbus TCP or Ethernet to FOUNDATION Fieldbus can be realized. Simultaneous access from e.g. a PROFINET controller together with parameter access via FDT of an engineering workstation will of course also be supported. So the PROFINET controller can exchange process data from a field device while simultaneously a PC can read or write device parameters.



Technical details	isNetLite
Interface	RJ 45 (Ethernet)
Controller	ARM9 32Bit 400 MHz
RAM	32 MB
Flash	256 MB
Transmission rate	Ethernet/PROFINET/MODBUS 10 Mbit/s – 100 Mbit/s
Power supply	19,2 - 30V DC, max 4A
Power consumption	1,1W (typ.) ... 1,5W (max)
Max. buffer time RTC	2h
LxWxH in mm	114,5 x 32,2 ⁽¹⁾ x 99
Weight	140 g
Wire size	0,5 mm ² ... 2,5 mm ² / AWG 20 ... AWG 12 ⁽⁴⁾
Temperature range	- 40° C ≤ T _{amb} ≤ 70° C / - 40° F ≤ T _{amb} ≤ 158° F
Storage temperature	- 40° C ≤ T _{amb} ≤ 85° C / - 40° F ≤ T _{amb} ≤ 185° F
Pollution degree	2
Altitude	up to 2000 m
Driver software	Windows XP, Vista, 7, 8, 10, 11
Delivery content	Hardware, manual on USB stick
Order code	19300-0101

⁽¹⁾ Dimensions including terminal cover

⁽⁴⁾ Cable entries and field wiring must be suitable for an operating temperature of at least +20°C above ambient.

1.2 isNet DP/DP2

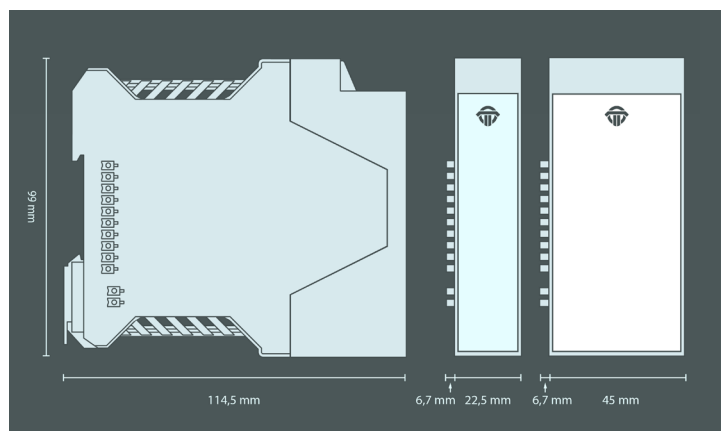
Ethernet Communication Module



The isNet DP module extends the main module isNet Lite to work as a PROFIBUS DP Ethernet Gateway. The isNet DP modules are available as one and two channel version. The main module can be enhanced with a maximum of 5 PROFIBUS modules, so up to ten PROFIBUS segments can be accessed from the main module. The PROFIBUS channels are galvanically isolated, at the 2 channel version each channel is isolated separately.

Access to the PROFIBUS network is provided by a SubD9 connector (female). The protocols DP/V0 and DP/V1 are supported.

The modules are operated via the isPro ComMDTM. The DTM is compliant to the FDT 1.2.1 specification and integrates the gateway into every FDT-frame application.



Technical details	1-Channel isNet DP	2-Ch. isNet DP2
Connectors	1 RS-485	2 RS-485
Power consumption	2,4W	2,5W
LxWxH in mm	114,5 x 22,5 ⁽¹⁾ x 99	114,5 x 45 ⁽¹⁾ x 99
Weight	140 g	250 g
Temperature range	0° C <= T _{amb} <= 50° C / 32° F <= T _{amb} <= 122° F	
Transmission rate	9,6 kbit/s ... 12,0 Mbit/s	
Driver software	Windows XP, Vista, 7, 8, 10, 11	
Delivery content	Hardware, isNet DTM Library, Pactware, User manual isNet Line on USB stick	
Order code	19300-0401	19300-0501

⁽¹⁾ Dimensions without lateral plugs

1.3 isNet DiagM PA

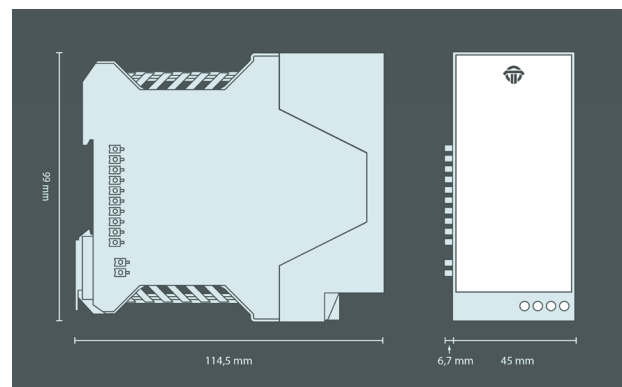
Ethernet Communication Module



The isNet DiagM PA is a stationary PROFIBUS PA diagnostic and master module. Together with the head module isNet Lite, gateways can be built, that provide direct access from Ethernet to PROFIBUS PA devices without a DP/PA segment coupler. Thus, for example, existing plants with PROFIBUS PA can be connected directly to modern Ethernet fieldbuses such as PROFINET.

The connection to a PROFIBUS PA segment is done with pluggable screw terminals. Up to five modules can be connected to the head module isNet Lite. So, up to 5 PROFIBUS PA channels can be operated with a single head module.

The modules provide in addition to the master functionality extensive diagnostic options: List of participants of the network, error statistics, event log and telegram recording.



Technical details	1-Channel isNet DiagM PA
Connectors	1 screw terminals
Power consumption ⁽²⁾	2,0W
LxWxH in mm	114,5 x 45 ⁽¹⁾ x 99
Weight	250 g
Temperature range	- 40° C ≤ T _{amb} ≤ 60° C / -40° F ≤ T _{amb} ≤ 140° F
Storage temperature	- 40° C ≤ T _{amb} ≤ 85° C / - 40° F ≤ T _{amb} ≤ 185° F
Transmission rate	31,25 kbit/s
Driver software	Windows XP, Vista, 7, 8 or 10, 11
Delivery content	Hardware, isNet DTM Library, Pactware, User manual isNet Line on USB stick
PA supply/channel	300 mA
PA supply voltage	22 ... 24V
Order code	19300-1201

⁽¹⁾ Dimensions without lateral plugs; ⁽²⁾ without fieldbus slaves

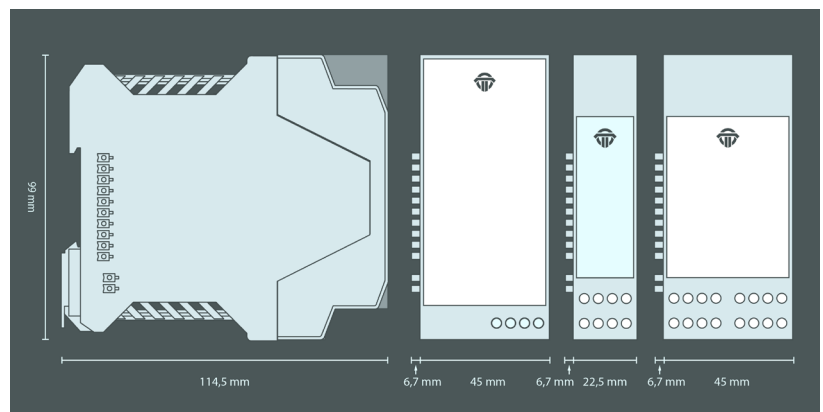
1.4 isNet FF/FF2/FF4

Ethernet Communication Module

To access FOUNDATION Fieldbus field devices, the main module isNet Lite can be expanded with a FF linkmaster module. This module is available as 1-channel, 2-channel or 4-channel version. Each channel of the module has its own galvanic isolation.

Furthermore the one channel module version includes a voltage supply for the connected field devices, so that an external supply voltage source and a power conditioner can be omitted.

Of course, the connection to externally supplied FF-network segments is also possible. For the modules a free FDT 1.2-compatible communication DTM is available which allows access to the connected FF field devices in FDT frame applications like Pactware.



Technical details	1 - Channel isNet FF	2 - Channel isNet FF2	4 - Channel isNet FF4
Connectors	1 screw type terminals	2 screw type terminals	4 screw type terminals
Power consumption ⁽²⁾	2,0W		
LxWxH in mm	114,5 x 45 ⁽¹⁾ x 99	114,5 x 22,5 x 99	114,5 x 45 ⁽¹⁾ x 99
Weight	250 g	xg	xg
Temperature range	- 40° C ≤ T _{amb} ≤ 60° C / -40° F ≤ T _{amb} ≤ 140° F		
Storage temperature	- 40° C ≤ T _{amb} ≤ 85° C / - 40° F ≤ T _{amb} ≤ 185° F		
Transmission rate	31,25 kbit/s		
Driver software	Windows XP, Vista, 7, 8, 10, 11		
Delivery content	Hardware, isNet DTM Library, Pactware, User manual isNet Line on USB stick		
Fieldbus supply/channel	300 mA	no	no
Fieldbus supply voltage	22 ... 24V	no	no
Order code	19300-1701	19300-0801	19300-0901

⁽¹⁾ Dimensions without lateral plugs; ⁽²⁾ without fieldbus slaves

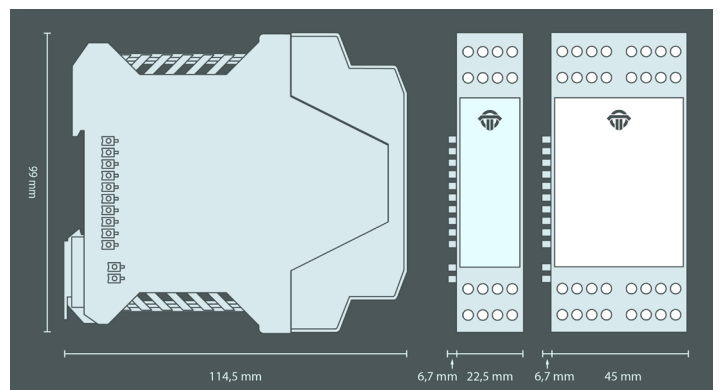
1.5 isNet H@rt4/8

Ethernet Communication Module

The isNet H@rt Module extends the main module isNet Lite to work as an HART-Ethernet gateway. The HART Ethernet gateway is an up-to-date option to replace the widely used RS485 HART multiplexer solutions as it enables the direct connection to the existing data network of a plant. Since every HART channel possesses its own HART modem, the isNet H@rt module can handle all channels in parallel and take advantage of the high bandwidth of TCP.



The isNet H@rt modules are equipped with either four (single width) or eight (double width) channels. Up to five HART modules can be connected to the main module, so a maximum of 40 HART channels can be operated in parallel. Every channel provides galvanic decoupling from the HART line. Access to the HART network is achieved by 8 plug-in screw-type terminals.



Technical details	4 - Channel isNet H@rt4	8 - Channel isNet H@rt8
Connectors	4 screw type terminals	8 screw type terminals
LxWxH in mm	114,5 x 22,5 ⁽¹⁾ x 99	114,5 x 45 ⁽¹⁾ x 99
Power consumption	1,2W	1,4W
Weight	140 g	250 g
Temperature range	- 40° C ≤ T _{amb} ≤ 70° C / - 40° F ≤ T _{amb} ≤ 158° F	
Storage temperature	- 40° C ≤ T _{amb} ≤ 85° C / - 40° F ≤ T _{amb} ≤ 185° F	
Transmission rate	1200 Bit/s	
Pollution degree	2	
Altitude	up to 2000 m	
Wire size	0,2 mm ² ... 2,5 mm ² /AWG24 ... AWG 12 ⁽⁴⁾	
Driver software	Windows XP, Vista, 7, 8, 10, 11	
Delivery content	Hardware, isNet DTM Library, Pactware, User manual isNet Line on USB stick	
Order code	19300-0601	19300-0701

⁽¹⁾ Dimensions without lateral plugs

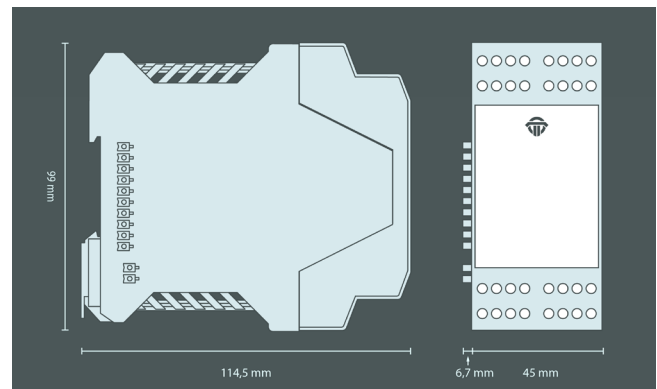
⁽⁴⁾ Cable entries and field wiring must be suitable for an operating temperature of at least +20°C above ambient.

1.6 isNet H@rt8+AI

Ethernet Communication Module

The HART module isNet H@rt8+AI contains 8 independent HART masters, every HART master with a separate HART modem, similar to the isNet H@rt8. In addition, it provides a 24V voltage source for connected HART field devices and it can measure the 4..20mA loop current for every HART slave. The module provides these process data to the Ethernet head module isNet Lite and so to the higher level Ethernet fieldbusses like PROFINET or Modbus-TCP for further processing.

Different from the isNet H@rt8 Modules, every HART field device will be connected to the isNet H@rt8+AI by just 2 wires, which helps to keep the cabling more simple.



Technical details	8 - Channel isNet H@rt8+AI
Connectors	8 screw type terminals
LxWxH in mm	114,5 x 45 ⁽¹⁾ x 99
Power consumption	1,8W ⁽²⁾
Weight	250 g
Temperature range	- 40° C ≤ T _{amb} ≤ 70° C / - 40° F ≤ T _{amb} ≤ 158° F
Storage temperature	- 40° C ≤ T _{amb} ≤ 85° C / - 40° F ≤ T _{amb} ≤ 185° F
Pollution degree	2
Altitude	up to 2000 m
Wire size	0,2 mm ² ... 2,5 mm ² /AWG24 ... AWG 12 ⁽⁴⁾
Transmission rate (HART)	1200 Bit/s
Transmitter supply voltage	24V
max. current	25 mA (per channel)
Input impedance	250 Ω
Driver software	Windows XP, Vista, 7, 8, 10, 11
Delivery content	Hardware, isNet DTM Library, Pactware, User manual isNet Line on USB stick
Order code	19300-0702

⁽¹⁾ Dimensions without lateral plugs ; ⁽²⁾ without fieldbus slaves;

⁽⁴⁾ Cable entries and field wiring must be suitable for an operating temperature of at least +20°C above ambient.

1.7 isHMuxGate

Ethernet Communication Module

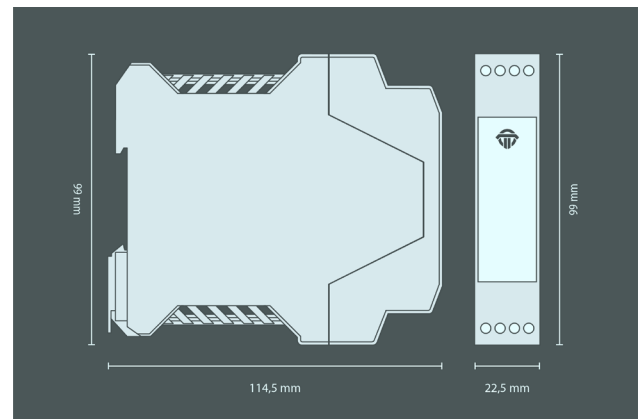
The HART-IP gateway isHMuxGate is an ideal solution for retrofitting HART networks with Ethernet. It makes this possible without the need to replace existing RS485 HART multiplexers commonly used in HART networks. This guarantees minimal wiring effort and saves existing investments.

Through the seamless translation of the different HART multiplexer protocols to HART-IP, the network can be enabled for the requirements of the future. The isHMuxGate is therefore ideally suited for engineering tasks, asset management solutions such as NAMUR Open Architecture (NOA) and field device access via FDI and FDT.



Technical data

Processor	ATSAMA5D27C
RAM	64 MByte or 128 MByte
Flash	256 MByte
Transmission rate	<u>Ethernet</u> : 10 Mbit/s – 100 Mbit/s <u>RS-485</u> : 9,6 kBit/s, 19,2 kBit/s, 38,4 kBit/s
Power supply	10,8V .. 30V DC
Power consumption	50mA (typ. at 24V DC)
Galvanic isolation	yes
Protection class	IP20
Body material	Polyamide
Dimensions (L x W x H)	114,5mm x 22,5mm x 99mm
Weight	approx. 110g
Operating temperature	- 40 .. 70°C / - 40° F .. 158° F
Storage temperature	- 40 .. 85°C / - 40° F .. 185° F
Order code	14400-0101



Currently supported and tested multiplexers:

- Hport, Arcom Control Systems
- MTL4841 Multiplexer, Measurement Technology
- MTL4850 Multiplexer, Measurement Technology
- KFD2-HMM-16, Pepperl Fuchs
- MUX2700-G, Pepperl Fuchs
- IS pac 9192 16 ch, Stahl
- GMI 5700 HART Mux

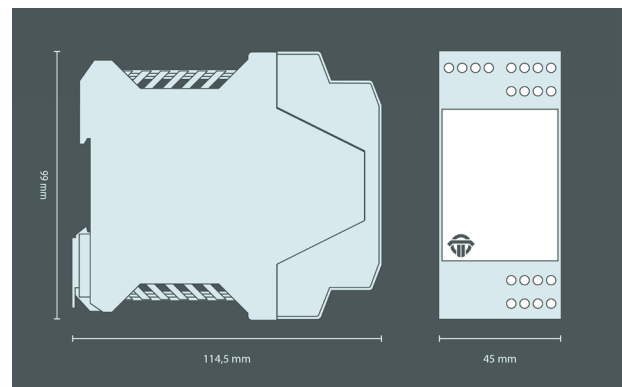
1.8 isH4Cube

HART-Ethernet Gateway

The isH4Cube is an Ethernet gateway for the connection of HART instruments to an Ethernet network. The gateway translates from wired HART into a number of different industrial Ethernet protocols like HART-IP, Modbus-TCP or Profinet.

The gateway provides 4 HART connections, each one equipped with a separate HART modem. This allows to run the 4 channels independently. By processing HART requests on different channels simultaneously, system performance is increased significantly.

All 4 channel are galvanically isolated and provide an optionally usable 240 Ohm loop resistor.



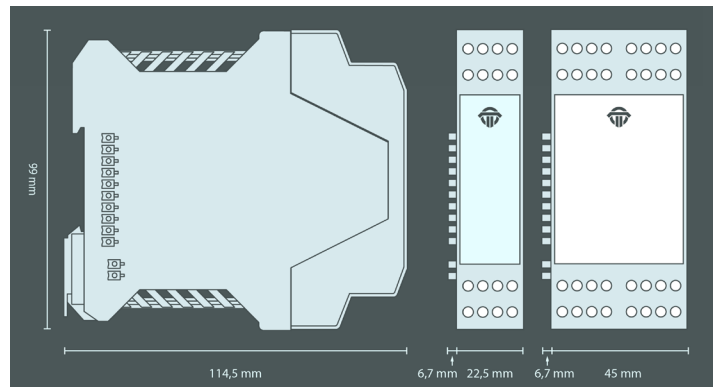
Technical details	isH4Cube
Interface	RJ 45 (Ethernet)
Processor	ATSAM9X60D
RAM	64 MB
Flash	256 MB
Transmission rate	Ethernet: 10 Mbit/s – 100 Mbit/s / HART: 1200 Bit/s
Power supply	19,2 - 30V DC
Power consumption	60mA (typ. at 24V DC)
Galvanic isolation	yes
Protection class	IP20
Body material	Polyamide
Dimensions (L x W x H)	114,5mm x 45mm x 99mm
Weight	approx. 200 g
Operating temperature	- 20° C <= T _{amb} <= 70° C / -4° F <= T _{amb} <= 158° F
Storage temperature	- 40° C <= T _{amb} <= 85° C / - 40° F <= T _{amb} <= 185° F
Ordercode	14400-0201

1.9 isNet DIO4/8

Ethernet Communication Module

The isNet DIO is a Digital Input/Output expansion module for the isNet Line. The module exists in 2 versions, one with 4 and one with 8 I/O channels. Each channel consists of one 4-pin screw terminal, with one Input and one Output per terminal. Every channel is galvanically isolated individually.

The module does not only read or write binary logic levels, but every channel can also be configured to operate with more sophisticated functions like counter, timer, frequency measurement or PWM output. The resulting process variables are directly accessible over Profinet or Modbus-TCP.



Technical details	4-Channel isNet DIO4	8-Channel isNet DIO8
Connectors	4 screw type terminals	8 screw type terminals
LxWxH in mm	114,5 x 22,5 ⁽¹⁾ x 99	114,5 x 45 ⁽¹⁾ x 99
Power consumption	1 W	1 W
Weight	140 g	250 g
Temperature range	- 40° C ≤ T _{amb} ≤ 70° C / - 40° F ≤ T _{amb} ≤ 158° F	
Storage temperature	- 40° C ≤ T _{amb} ≤ 85° C / - 40° F ≤ T _{amb} ≤ 185° F	
Pollution degree	2	
Altitude	up to 2000 m	
Wire size	0,2 mm ² ... 2,5 mm ² /AWG24 ... AWG 12 ⁽⁴⁾	
input-voltage range/ -frequency	-30V ... 30V / 100 Hz (max.)	
switching levels	0= -30V ... 5V / 1= 15V ... 30V	
Digital Outputs (switching frequency: 100 Hz)	ON= resistance: < 1 Ohm; maximum current: 500 mA OFF= resistance: > 40 MOhm; maximum voltage: 30V	
Order code	19300-1301	19300-1404

⁽¹⁾ Dimensions without lateral plugs

⁽⁴⁾ Cable entries and field wiring must be suitable for an operating temperature of at least +20° C above ambient.

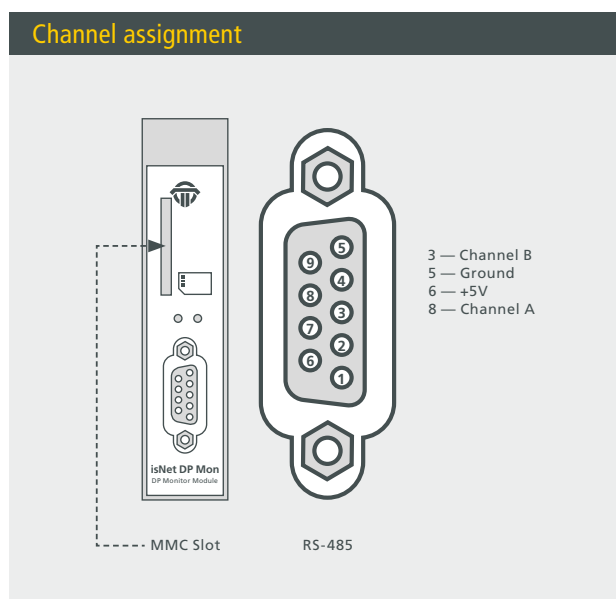
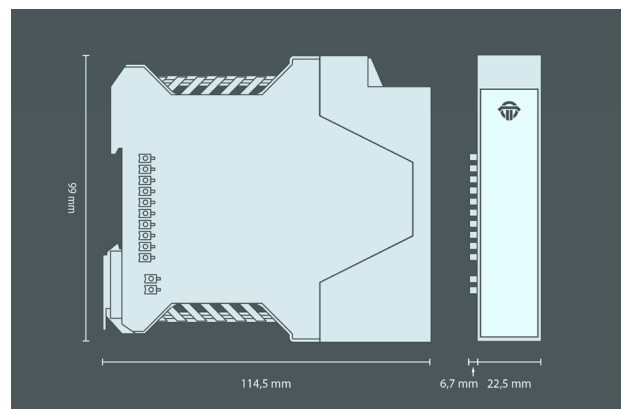
2.1 isNet DPMon

Ethernet Communication Module



With the isNet DPMon module any gateway built with the isNet Lite can be extended to operate as a PROFIBUS DP diagnosis and protocol monitor. The module helps to detect and investigate sporadic problems in the data transmission on a PROFIBUS line. Communication problems can be so easily captured and eliminated.

The features of the isNet DPMon module include a protocol monitor, an evaluation of statistical data on the PROFIBUS, such as error counters or average time intervals, and for investigation of the physical signal quality, the integrated oscilloscope is quite useful. Even when no PC is connected to the isNet Lite, the module can still record protocol telegrams due to its long-term recording capability, the captured telegrams are stored on an SD card.



Technical details	isNet DPMon
Connectors	1 RS-485
LxWxH in mm	114,5 x 22,5 ⁽¹⁾ x 99
Power consumption	2,5W
Weight	140 g
Temperature range	0° C <= Tamb <= 50° C / 32° F <= Tamb <= 122° F
Transmission rate	9,6 kBit/s – 12 Mbit/s
Driver software	Windows XP, Vista, 7, 8, 10, 11
Delivery content	Hardware, isNet DTM Library, isFieldDiagnosis Setup, Pactware, isNet Line User manual on USB stick
Order code	19300-0201

⁽¹⁾ Dimensions without lateral plugs

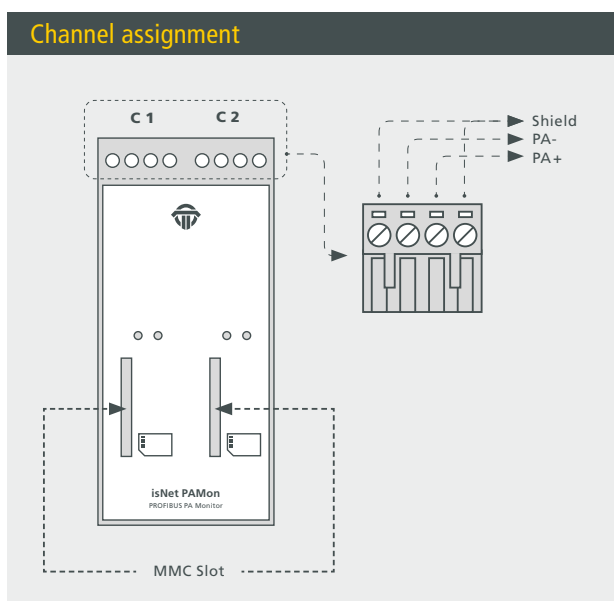
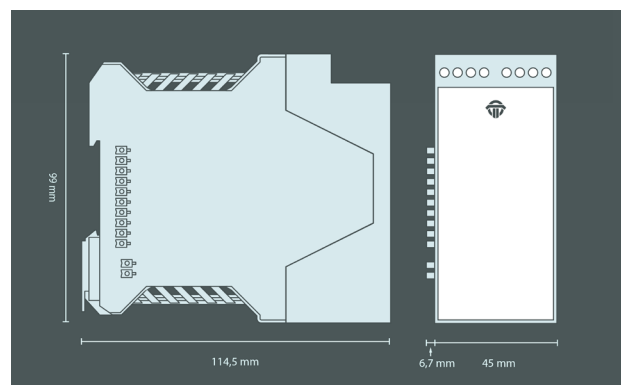
2.2 isNet PAMon

Ethernet Communication Module



With the isNet PAMon module, any gateway built with the isNet Lite can be extended to operate as a PROFIBUS PA diagnosis and protocol monitor. The module helps to detect and investigate sporadic problems in the data transmission on a PROFIBUS line. Communication problems can be so easily captured and eliminated.

The features of the isNet PAMon module include a protocol monitor, an evaluation of statistical data on the PROFIBUS, such as Error counters or average time intervals, and for investigation of the physical signal quality, the integrated oscilloscopes for every PA channel are quite useful. Even when no PC is connected to the Netlite, the module can still record protocol telegrams due to its long-term recording capability, the captured telegrams are stored on an SD card.



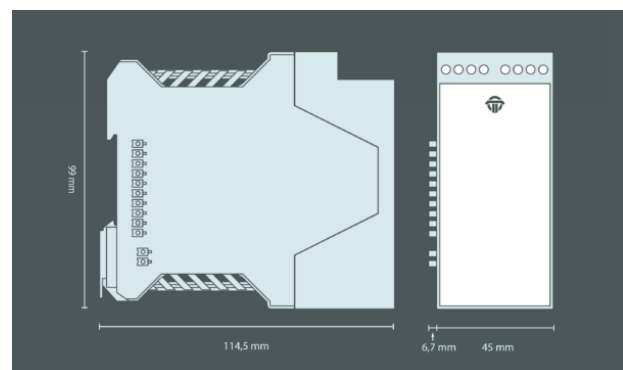
Technical details	isNet PAMon
Connectors	2 screw type terminals
LxWxH in mm	114,5 x 45 ⁽¹⁾ x 99
Power consumption	2,4W
Weight	250 g
Temperature range	0° C <= Tamb <= 50° C / 32° F <= Tamb <= 122° F
Transmission rate	31,25 kBit/s
Driver software	Windows XP, Vista, 7, 8, 10, 11
Delivery content	Hardware, isNet DTM Library, isFieldDiagnosis Setup, Pactware, User manual on USB stick
Order code	19300-0301

⁽¹⁾ Dimensions without lateral plugs

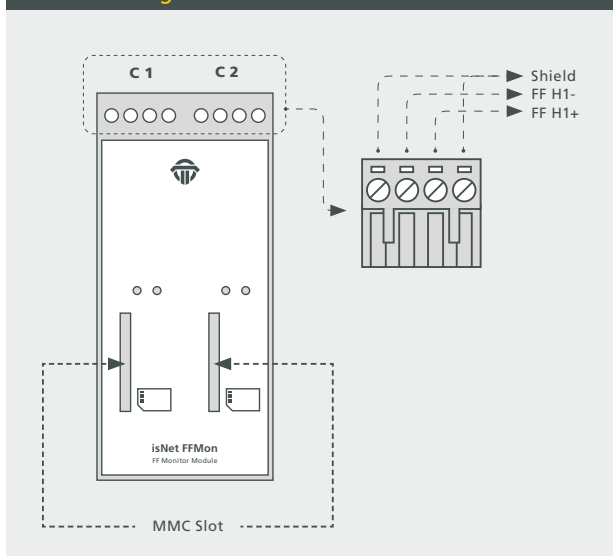
2.3 isNet FFMon Ethernet Communication Module

The isNet FFMon module extends the Ethernet module isNet Lite to operate as a diagnosis and protocol monitor for FOUNDATION Fieldbus. The module helps to detect and investigate sporadic problems in the data transmission in an FF network.

The functionality of the isNet FFMon module includes a protocol monitor to record FF telegram frames, an integrated oscilloscope for analysis of the physical signal quality and an extensive evaluation of statistical data on the FF H1 bus, such as Error counters or average time intervals. The long-time recording allows autonomous operation for an extended period, even if no PC is connected to the Netlite. The log file is saved directly on an MMC memory card and can be downloaded later to a PC.



Channel assignment



Technical details

isNet FFMon

Connectors	2 screw type terminals
LxWxH in mm	114,5 x 45 ⁽¹⁾ x 99
Power consumption	2,4W
Weight	250 g
Temperature range	0° C ≤ Tamb ≤ 50° C / 32° F ≤ Tamb ≤ 122° F
Transmission rate	31,25 kBit/s
Driver software	Windows XP, Vista, 7, 8, 10, 11
Delivery content	Hardware, isNet DTM Library, isFieldDiagnosis Setup, Pactware, User manual on USB stick
Order code	19300-0801

⁽¹⁾ Dimensions without lateral plugs

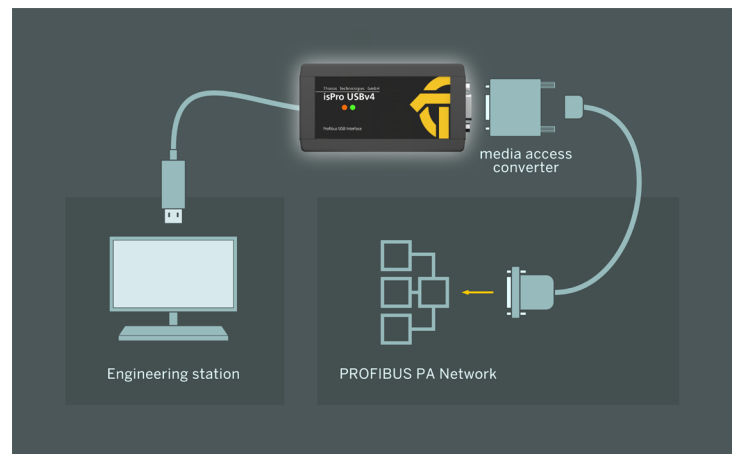
3.1 isPro USBv4

PROFIBUS USB Interface



The isPro USBv4 is the successor of isPro USBx12. It is compatible with the isPro USBx12. This interface is optionally available with an isFF/PA MAU media access converter, with which it can be connected to a PROFIBUS PA network.

Desktop PCs, as well as notebook devices, can be connected to a PROFIBUS fieldbus within seconds based on the plug & play features of USB. Operational areas are mobile set up and configuration of field devices. More more complex operations the parallel use of up to 16 PROFIBUS USB adapters connected to one PC is also possible. The adapters are USB bus powered and are not dependent on external power connections. The interface supports the Master functionality of the PROFIBUS Standard DP (class 1 and 2) and DP/V1 (class 2). Its high transmission rate of up to 12 Mbit/s is of special interest for fast application in the manufacturing process like drive set-up and diagnosis. To guarantee short cycle times and low latency, the PROFIBUS firmware is running on a dedicated Microcontroller. A Dual Ported RAM decouples the firmware from the performance of the PC.



Technical data

Controller	Motorola Coldfire
Flash	256 kByte
RAM	256 kByte
Connector	1 RS-485
Fieldbus protocols	PROFIBUS DP-(Cl. 1+ 2) and DP-V1- Master (Cl.2), DP-Slave, FMS-Master, PROFIBUS PA (optionally)
Transmission rate	9,6 kbit/s ... 12 Mbit/s (DP), 31,25 kbit/s (PA)
Fieldbus supply	22 ... 24V, max. 15 mA
Temperature range	0° C ... 60° C
Dimensions basic device	105 x 54 x 30 mm
Dimensions converter)	36 x 35 x 16 mm
Driver software	Windows XP, Vista, Windows 7, 8, 10 and 11
Available software	isPro CommDTM (FDT), isPro MultiServer (OPC)
Order code	Interface: 10300-0402 Converter: 16300-0201

3.2 isHRT USB

HART USB Interface

The interface isHRT USB is designed to provide a communication link between a desktop computer or PC notebook and the HART field device. The PC can be taken into the field and connected with the HART network within seconds thanks to the USB plug & play features.

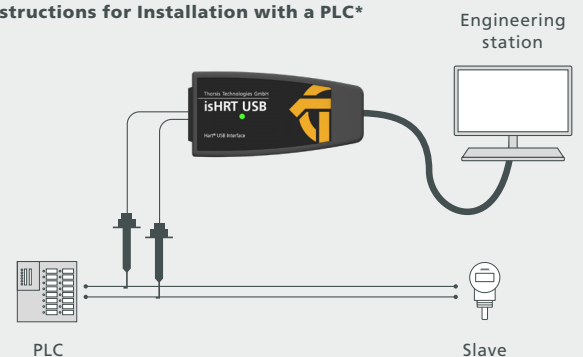
Mobile data acquisition as well as parameterization are preferred operational areas. The modem can work as primary as well as secondary Master and features galvanic decoupling from the HART line.



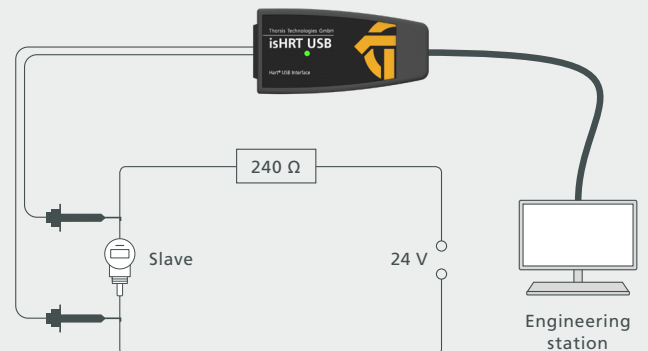
Technical data

Modem Chip	DS8500
Connector	2-pole current terminal
Transmission rate	1200 Bit/s (600 Bit/s optional)
Temperature range	0° C ≤ T _{amb} ≤ 50° C / 32° F ≤ T _{amb} ≤ 122° F
Size (WxDxH) in mm	97 x 47 x 24
Weight	158 g
Cable length	≈1,5 m USB & HART
Driver software	Windows XP, Vista, Windows 7, 8, 10, 11
Compatible with	Simatic PDM© Siemens, HCF-Server
	Emerson AMS Device Manager PACTware
	Endress+Hauser FieldCare ABB Asset Vision Basic
Order code	14300-0102

1. Instructions for Installation with a PLC*



2. Instructions for Installation with a 24 V power source



*PLC: programmable logic controller

3.3 isHRT USBeX

HART USB Interface

The interface isHRT USBeX is designed to provide a communication link between a desktop computer or PC notebook and the HART field device. The PC can be taken into the field and connected with the HART network within seconds thanks to the USB plug & play features. Mobile data acquisition as well as parameterization are preferred operational areas. The modem can work as primary as well as secondary Master and features galvanic decoupling from the HART line.

For the use in hazardous areas we deliver an intrinsic safe, ATEX certified version: isHRT USBeX. It is functionally equivalent to the standard type.



Technical data⁽¹⁾

HART Modem Chip	DS8500		
Connector	2-pole current terminal		
Transmission rate	1200 Bit/s (600 Bit/s optional)		
Safety engineering data	Parameters of non-intrinsically safe circuits (USB connector)		
	U_m	AC	253 V
	Output parameters of intrinsically safe circuit (Hart connector)		
	U_o	DC	2,5 V
	I_o		3 mA
	P_o		2 mW
	C_o		1000 μ F
	L_o		100 mH
	Input parameters of intrinsically safe circuit (Hart connector)		
	U_i	DC	30 V
	$L_i =$ negligible		
	$C_i =$ negligible		
Temperature range	0° C ... 50° C / 32° F ... 122° F		
Size (WxDxH) in mm	89 x 50 x 24		
Weight	243 g		
Cable length	\approx 1,8 m USB & \approx 1,5 m HART		
Driver software	Windows XP, Vista, Windows 7, 8, 10, 11		
Compatible with	Simatic PDM© Siemens, HCF-Server, Emerson AMS Device Manager, PACTware, Endress+Hauser FieldCare, ABB Asset Vision Basic		
Order code	14300-0201		

⁽¹⁾ valid for isHRT USBeX devices as of production date 2021.

3.4 the H@RT BluePack

HART Bluetooth Interface

The “the H@rt BluePack” is a versatile interface which supports wireless (Bluetooth) and wired (USB) access to a HART network. It can be employed as an up-to-date replacement for the still widely used RS-232-HART modem solutions. Additionally to its modem capabilities the H@rt BluePack runs an embedded HART master stack.

The active HART master stack guarantees compliance with the HART timing requirements regardless of the speed of the PC host application or the data transmission quality between the host and the Bluetooth device.

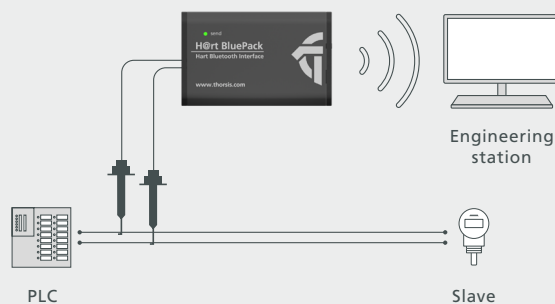


Technical data

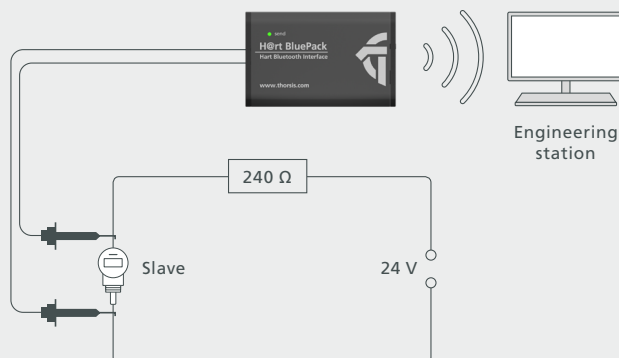
Bluetooth Modem	WT11 (Bluegiga)
HART Modem Chip	DS 8500
Connector	2-pole current terminal / Mini-USB
Transmission rate	USB: 12Mbit/s; HART: 1200 Bit/s; Bluetooth: up to 2,1 Mbit/s
Power supply	3 x AAA Batteries or USB-cable
Size (WxDxH) in mm	84 x 54 x 26
Weight	106 g (without Batteries)
Cable length	≈1,5 m
Driver software	Windows XP, Vista, Windows 7, 8, 10, 11
Compatible with	Simatic PDM© Siemens, HCF-Server Emerson AMS Device Manager PACTware Endress+Hauser FieldCare ABB Asset Vision Basic
Order code	14300-2002

Bluetooth

1. Instructions for Installation with a PLC



2. Instructions for Installation with a 24 V power source



3.5 isCAN USB

CAN USB Interface

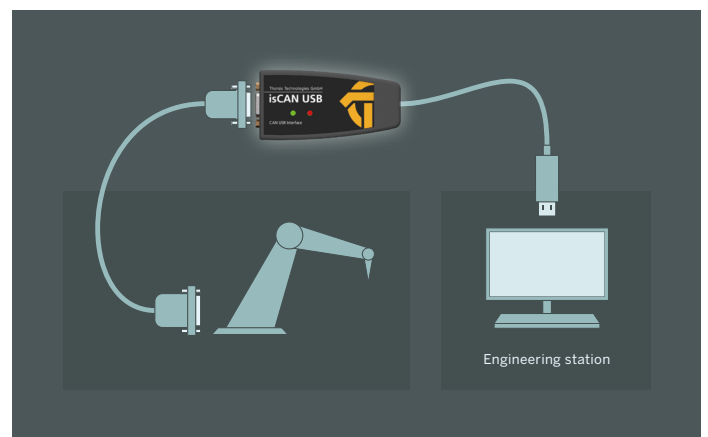
CAN

The CAN dongle isCAN USB with the universal USB interface grants a fast access to any CAN/CANopen based network. The isCAN USB interface standard type supports the CAN specification 2.0A (11 bit ID) and 2.0B (29 bit ID).

It is connected with a 9 pin D-Sub connector according to the CiA specification DS-102. LED's indicate the actual working condition. The opto-isolated interface supports a transmission speed of up to 1 MBit/s.

For users of CANopen devices, the driver software includes a CANopen configuration software "isPlorer". This software enables simple configuration tasks for CANopen field devices such as reading or writing parameters, changing the node ID and bit rate or resetting parameters to factory default.

The isCAN USB is powered via the USB cable, a separate power cable is not necessary.



Technical data

Interface	USB
Controller	CY7C68014A, Asic SJA1000
Identifier length	11/29 Bit
Transmission rate	10 kbit/s – 1 Mbit/s (CAN)
Driver software	Windows XP, Vista, Windows 7, 8, 10 and 11
Available software	isCAN/CANopen Comm DTM, isCAN/CANopen server (OPC), RP1210 Interface-Dll with J1939-support and ISO15765-2 support SAE J2534-1 Driver Dll (Passthru API) API interface Dll with examples in C/C++ and C# source code
Order code	11300-0201

3.6 isDNet USB

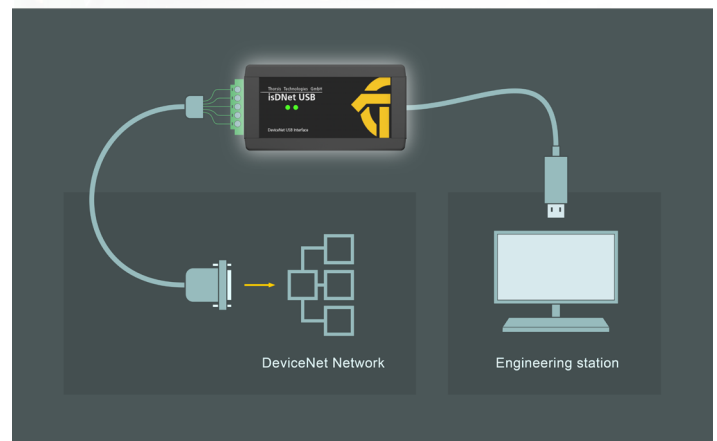
DeviceNet USB Interface

The Interface isDNet USB provides a communication link between a desktop computer or PC notebook and a Device Network. The PC can be connected with the Device Network using the USB plug & play features. Realtime data of the field devices are available for operational areas, e.g. mobile data acquisition and parameterization.

The interface is not dependent on external power supplies. The processor and its periphery are powered by the USB bus. The transceiver is galvanic decoupled, its supply results from the DeviceNet Bus.

The interface supports the DeviceNet Standard Version 2.0. Its connector cable comes with a 5-pin connector. The DeviceNet Stack works alternative or in parallel as Master (and IO scanner) or Slave.

The scanner allows a dynamic change of the slave list, which means while the DeviceNet is working slave devices can be added to or eliminated from the scan list. The cyclic time of the the scan can be set as required by the system. The „Explicit Messaging“ functionality is performed employing asynchronous command and event queues. Thus any data lengths can be transmitted.



Technical data

Connector	DeviceNet (COMBICON 5-pin), USB 2.0
Controller	Asic SJA1000, CY7C68014A
Transmission rate	125 kbit/s, 250 kbit/s, 500 kbit/s; Full Speed: 12 Mbit/s; High Speed: 480 Mbit/s
Driver software	Windows 7, 8, 10 and 11
Available software	DNet CommDTM (FDT)
Order code	12300-0101

3.7 isFF USB

Foundation Fieldbus USB Interface

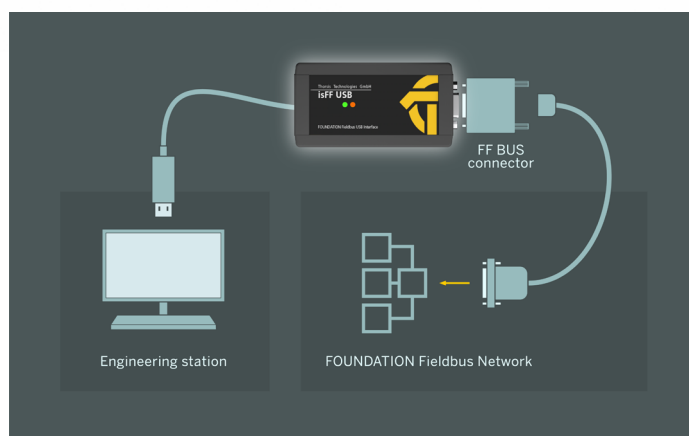
The isFF USB interface supports an easy and quick commissioning of FOUNDATION Fieldbus devices. Due to its USB bus power supply and plug-and-play functionality it is ready to use within seconds. Every FDT frame application can be used with the device as it can be accessed via an FDT 1.2-compliant communication-DTM.

The isFF USB is able to power one FOUNDATION Fieldbus Field device with the integrated power source. Therefore it is suitable especially as a tool for bench top commissioning and/or faster starting up, expensive wiring and additional power supply can be dropped. A powerless connection to an existing FF network segment is also possible.

The isFF USB interface consists of two components: the basic unit and the adapter for the FF-bus connection.

In order to work with an FF network, both components must always be operated together.

The isFF USB is powered via the USB cable, a separate power cable is not necessary.



Technical data

USB Interface	USB 2.0
Controller	Motorola Coldfire
FF-Interface	H1, Linkmaster
Transfer rate	31,25 kBit/s
Power supply	22 ... 24 V, max. 15 mA
Flash	256 kByte
RAM	256 kByte
Temperature range	0° C ... 60° C
Dimensions (Basic device)	105 x 54 x 30 mm
Dimensions (Converter)	36 x 35 x 16 mm
Driver software	Windows 7, 8, 10, 11
Available software	FDT1.2 (isFF CommDTM)
Order code	16300-0101



FDT DTM DEVELOPMENT

Thorsis Technologies is actively involved in the further development of the FDT specification in various committees, for example in the development of annexes for various fieldbuses and technologies (e.g. PROFIBUS, OPC UA). He also participates in interoperability projects and other FDT Group activities. By actively participating in these committees, we are always up to date with the latest technological developments - knowledge which we are happy to share with you in your projects and apply in your products.

With our powerful tools (DTM Architect FDT2 or DTM Creator Base), we develop device, communication and gateway DTMs for your hardware according to your requirements. If your devices are already integrated in EDD-based host systems, you can use our Thorware EDD View DTM to quickly and easily enter the world of FDT.

Naturally, we use FDT to integrate the communication adapters and diagnostic hardware that Thorsis Technologies develops and produces in-house. Various DTMs for our fieldbus interfaces are available in the download area. Test our FDT products and convince yourself of the possibilities of FDT.



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