AUTOMATION

Ethernet Accessories

For the WAGO-I/O-SYSTEM

WAGO®
INNOVATIVE CONNECTIONS

852-101

5-Port 100BASE-TX Industrial Switch

Features:

The 852-101 Industrial Switch is a 5-port 10/100Base-TX Ethernet switch. The switch has a rugged housing, a redundant power supply and function monitoring with relay, making it ideal for a wide range of applications.

- ► Redundant DC power supply
- ► Wide supply voltage range: 9 V - 48 V
- ► DIP switch enables alarm functions
- ► Full compliance with IEEE802.3, 802.3u standards
- ► Non-blocking, store-and-forward switching
- ► Auto-negotiation on all 10/100BaseTX ports
- ► Auto-MDI/MDIX (crossover) on all 10/100BaseTX ports

Description	Item-No.	Pack.-unit pcs
5-Port 100BASE-TX Industrial Switch	**852-101**	1

Technical Data	
Ports	5 x 10/100Base-TX (RJ-45)
Standards	IEEE 802.3u 100Base-TX;
	IEEE 802.3 10Base-T
Maximun distances	10/100Base-TX: 100 m
Supply voltage	DC 9 V - 48 V (line length < 30 m)
Operating temperature	0°C - +60°C
Storage temperature	-20°C - +80°C
Relative air humidity (no condensation)	95%
Dimensions (mm) W x H x L	50 x 120 x 105
Weight	approx. 780 g
Vibration resistance	acc. to IEC60068-2-6
Shock resistance	acc. to IEC60068-2-27
Degree of protection	IP 30
EMC CE-Immunity to interference	acc. to EN 61000-6-2 (2005)
EMC CE-Emission of interference	acc. to EN 61000-6-4 (2001)
UL Pending	

WAGO Corporation
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Ph: 800 DIN Rail (346-7245) Fx: 262.255.3232 www.wago.us

8-Port 100BASE-TX Industrial Switch

Features:

The 852-102 Industrial Switch is an 8-port 10/100Base-TX Ethernet switch. The switch has a rugged housing, a redundant power supply and function monitoring with relay, making it ideal for a wide range of applications.

- ► Redundant DC power supply
- ► Wide supply voltage range: 9 V - 48 V
- ► DIP switch enables alarm functions
- ► Full compliance with IEEE802.3, 802.3u standards
- ► Non-blocking, store-and-forward switching
- ► Auto-negotiation on all 10/100BaseTX ports
- ► Auto-MDI/MDIX (crossover) on all 10/100BaseTX ports

Description	Item-No.	Pack.-unit pcs
8-Port 100BASE-TX Industrial Switch	**852-102**	1

Technical Data	
Ports	8 x 10/100Base-TX (RJ-45)
Standards	IEEE 802.3u 100Base-TX;
	IEEE 802.3 10Base-T
Throughputs	14,880/148,800 packets per second
	(pps) to 10/100 Mbps ports
Maximun distances	10/100Base-TX: 100 m
Supply voltage	DC 9 V - 48 V (line length < 30 m)
Operating temperature	0°C - +60°C
Storage temperature	-20°C - +80°C
Relative air humidity (no condensation)	95%
Dimensions (mm) W x H x L	50 x 162 x 120
Weight	approx. 780 g
Vibration resistance	acc. to IEC60068-2-6
Shock resistance	acc. to IEC60068-2-27
Degree of protection	IP 30
EMC CE-Immunity to interference	acc. to EN 61000-6-2 (2005)
EMC CE-Emission of interference	acc. to EN 61000-6-4 (2001)
UL Pending	

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852-103

8-Port 100BASE-TX + 2-Slot 100BASE-FX Industrial Switch

Features:

The 852-103 Industrial Switch is an 8-port 10/100Base-TX with dual SFP 100Base-FX port (SFP modules are optional) Ethernet switch. The switch has a rugged housing, a redundant power supply and function monitoring with relay, making it ideal for a wide range of applications.

- ▶ Redundant DC power supply
- ▶ Wide supply voltage range: 9 V - 48 V
- ▶ DIP switch enables alarm functions
- ▶ Full compliance with IEEE802.3, 802.3u standards
- ▶ Non-blocking, store-and-forward switching
- ▶ Auto-negotiation on all 10/100BaseTX ports
- ▶ Auto-MDI/MDIX (crossover) on all 10/100BaseTX ports

Description	Item-No.	Pack.-unit pcs
8-Port 100BASE-TX/FX Industrial Switch	**852-103**	1

Accessories	Item-No.
SFP Modules 2: 1310nm, 100Base-FX Multi-mode LC, 2 km	**852-201/107-002**
SFP Modules 30: 1310nm, 100Base-FX Single-mode LC, 30 km	**852-201/107-030**

Technical Data	
Ports	8 x 10/100Base-TX (RJ-45)
	2 x SFP 100Base-FX Fiber
Standards	IEEE 802.3u 100Base-TX/FX;
	IEEE 802.3 10Base-T
Throughputs	14,880/148,800 packets per second
	(pps) to 10/100 Mbps ports
Wavelength (optical fibers)	depend on SFP module
Maximun distances	10/100Base-TX: 100 m;
	Fiber optic: up to 30 km
Supply voltage	DC 9 V - 48 V (line length < 30 m)
Operating temperature	0°C - +60°C
Storage temperature	-20°C - +80°C
Relative air humidity (no condensation)	95%
Dimensions (mm) W x H x L	50 x 162 x 120
Weight	approx. 780 g
Vibration resistance	acc. to IEC60068-2-6
Shock resistance	acc. to IEC60068-2-27
Degree of protection	IP 30
EMC CE-Immunity to interference	acc. to EN 61000-6-2 (2005)
EMC CE-Emission of interference	acc. to EN 61000-6-4 (2001)
UL Pending	

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7-Port 100BASE-TX + 2-Slot 100BASE-FX Industrial Managed Switch

Features:

The 852-104 Industrial Switch is a 7-port 10/100Base-TX with dual SFP 100Base-FX port (SFP modules are optional) configurable Ethernet switch. The switch has a rugged housing, a redundant power supply and function monitoring with relay. These functions along with extensive Ethernet switch options make it ideal for a wide range of applications.

Web-based/SNMP management

- ▶ Redundant DC power supply
- ▶ Wide supply voltage range: 9 V - 48 V
- ▶ DIP switch enables alarm functions
- ▶ Full compliance with IEEE802.3, 802.3u, 802.3x, 802.1d, 802.1q, 802.1p standards
- ▶ Xpress Ring (redundant ring recovery < 50 ms)
- ▶ Non-blocking, store-and-forward switching
- ▶ Auto-negotiation on all 10/100BaseTX ports
- ▶ Auto-MDI/MDIX (crossover) on all 10/100BaseTX ports
- ▶ VLAN (802.1q) VID
- ▶ IGMP Snooping for mulitcast filtering
- ▶ Port configuration, status, statistics
- ▶ Port Trunking
- ▶ SNMP v1/v2 and RMON

Description	Item-No.	Pack.-unit pcs
7/2-Port 100BASE-TX/FX Industrial Managed Switch	**852-104**	1

Accessories

SFP Modules 2: 1310nm, 100Base-FX Multi-mode LC, 2 km	**852-201/107-002**
SFP Modules 30: 1310nm, 100Base-FX Single-mode LC, 30 km	**852-201/107-030**

Technical Data	
Ports	7 x 10/100Base-TX (RJ-45)
	2 x SFP 100Base-FX Fiber
	1 x RS-232 (RJ-45)
Standards	IEEE 802.3u 100Base-TX/FX;
	IEEE 802.3ad Port Trunking;
	IEEE 802.3 10Base-T;
	IEEE 802.1d Spanning Tree Protocol;
	IEEE 802.3x Flow Control;
	IEEE 802.1p Priority Queues;
	IEEE 802.1q VLAN Tagging
MAC table	Up to 2K addresses
VLANs	Port-based and Tag-based (64VIDs)
Throughputs	14,880/148,800 packets per second
	(pps) to 10/100 Mbps ports
Wavelength (optical fibers)	depend on SFP module
Maximun distances	10/100Base-TX: 100 m;
	Fiber optic: up to 30 km
	RS-232: 15 m
Supply voltage	DC 9 V - 48 V (line length < 30 m)
Operating temperature	0°C - +60°C
Storage temperature	-20°C - +80°C
Relative air humidity (no condensation)	95%
Dimensions (mm) W x H x L	50 x 162 x 120
Weight	approx. 780 g
Vibration resistance	acc. to IEC60068-2-6
Shock resistance	acc. to IEC60068-2-27
Degree of protection	IP 30
EMC CE-Immunity to interference	acc. to EN 61000-6-2 (2005)
EMC CE-Emission of interference	acc. to EN 61000-6-4 (2001)
UL Pending	

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ECO Series - Industrial Unmanaged Ethernet Switch 5 and 8 port

Hardware features:

- ▶ 5 or 8 port industrial switch with optional fiber optic port (multimode or singlemode)
- ▶ Redundant power inputs and surge protection
- ▶ UL/CSA, CE and Zone 2 rated for industrial applications
- ▶ DIN rail or direct panel mount (no extra kit required)

Network features:

- ▶ Store and forward wire speed switching - no delays
- ▶ Support for up to 1024 addresses
- ▶ Automatic address learning, aging and migration
- ▶ Full-Duplex operation with flow control (no collisions!)
- ▶ Auto crossover (MDI/MDIX) and auto polarity

Ethernet Compliance:

- ▶ IEEE 802.3 (10Mbps Ethernet supports older devices)
- ▶ IEEE 802.3u (Fast Ethernet 100Mbps for more recent devices)
- ▶ IEEE 802.3x (Full Duplex with Flow Control)

Description	Item-No.	Pack.-unit pcs
Industrial Ethernet Switch,	**51190894**	1
5 RJ45 10/100 Ports		
Industrial Ethernet Switch,	**51190895**	1
4 RJ45 10/100 Ports & 1 multimode fiber optic port with SC style connector		
Industrial Ethernet Switch,	**51191018**	1
8 RJ45 10/100 Ports		

Power input terminal specifications	
MCS Series 231	22-12 AWG
4 pole 2 conductor	Strip length: 9 - 10 mm

Approvals	
Electrical safety	UL508/CSA C22, EN61010-1
EMI emissions	FCC part 15, ICES-003, EN55022
EMC immunity	IEC61326-1
Hazardous locations	UL1604, CSA C22.2/213 (Class 1, Div.2), EN50021/EN60079-15 (Zone 2)
Eye safety (fiber models)	IEC60825-1, Class 1, FDA 21 CFR 1040.10 and 1040.11
Packaging material and protection	UL94V0 Lexan and IP30

Technical Data	
Ethernet switch type	Intelligent store and forward
Ethernet protocols supported	All IEEE 802.3
RJ45 ports (shielded)	10/100 Base TX
RJ45 speed (10 or 100 Mbps)	Auto-negotiation
RJ45 MDI/MDIX and TD/RD	Auto-crossover and auto-polarity
Fiber optic port speed	100 BaseFX (100 Mbps)
Fiber optic port wavelength	1300 nm center
Fiber multimode (mm) typical	50 or 62.5/125 µm (SC or ST)
Fiber singlemode (sm) typical	9 or 10/125 µm (SC or ST)
Fiber max. distance (full duplex)	4 km (mm) 20 (sm) or 40 km (long haul)
Typ. latency for 100 Mbps ports	5 µs + frame time Varies on load
Fiber duplex operation	Full duplex
MAC addresses supported	1024
Memory bandwidth	3.2 Gbps
Mounting	DIN rail or direct panel mount
Power input	Redundant input terminals
Input power	2.0 W (5-port without fiber)
(typical - all ports active at 100 Mbps) (Max. 6 W)	3.0 W (5-port with 1 fiber)
	4.0 W (8-port without fiber)
Power input	10-30 VDC
Transient protection	15,000 Watts peak
Spike protection	5,000 Watts (10 times for 10 µS)
Ethernet isolation	1500 VRMS 1 minute
Operating temperature range	-10° to +60° C
Storage temperature range	-40° to +85° C
Humidity (non-condensing)	5 to 95% RH
Vibration	IEC68-2-6
Dimensions (L x W x H)	3.95" x 1.0" x 3.26" (5 Port)
	3.95" x 1.5" x 3.26" (8 Port)

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Industrial Unmanaged 5 Port Ethernet Switch

Features:

The WAGO Industrial Ethernet Switch allows for easy installation of the Ethernet network in factory environments. This rugged switch connects to any Ethernet enabled device and provides many industrial features.

- Five Ethernet Ports that are fully IEEE 802.3 compliant
- All 10/100 RJ-45 ports are auto-detecting, auto-crossover and auto-polarity
- DIN rail or direct panl mounting (no extra kits required)
- Store & forward wire speed switching - no delays
- Full-duplex operation with flow control (no collisions!)
- Ultra-reliable with 1,000,000+ service-free hours (MTBF)
- Industrial - 40° to +85° C operating range

Unlike an Ethernet hub, the Ethernet switch does not broadcast messages to all ports. The Ethernet switch remembers which device address is connected to each port and routes messages only to that device. This minimizes data collisions and increases network deterministic behavior.

Description	Item-No.	Pack.-unit pcs
Ethernet TCP/IP	**758-500**	1
Industrial ethernet switch, 5 port		

Power input terminal specifications

Series 739	28-12 AWG
3 pole	Strip length: 8 - 9 mm

Approvals

Electrical safety	UL508/CSA C22, EN61010-1
EMI emissions	FCC part 15, ICES-003, EN55022
EMC immunity	IEC61326-1
Hazardous locations	UL1604, CSA C22.2/213 (Class 1, Div.2), Cenelec EN50021 (Zone 2)
Marine and off-shore	DNV (Det Norske Veritas)

Technical Data

Ethernet switch type	Intelligent store and forward
Ethernet protocols supported	All IEEE 802.3
RJ45 ports (shielded)	10/100 Base TX
RJ45 speed (10 or 100 Mbps)	Auto-negotiation
RJ45 MDI/MDIX and TD/RD	Auto-crossover and auto-polarity
Typ. latency for 100 Mbps ports	5 µs + frame time Varies on load
Full or half duplex operation	Yes
MAC addresses supported	1024
Memory bandwidth	3.2 Gbps
Power input	10-30 VDC
Transient protection	15,000 Watts peak
Spike protection	5,000 Watts (10 times for 10 µS)
Ethernet isolation	1500 VRMS 1 minute
Operating temperature range	-40° to +85° C
Storage temperature range	-40° to +85° C
Humidity (non-condensing)	5 to 95% RH
Vibration	IEC68-2-6
Dimensions (L x W x H)	4.75" x 0.98" x 3.17"

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WAGO-PROTECT, 10/100 MBs Fast Ethernet Surge Protection

Features:

The WAGO Protect 10/100 Mb Ethernet surge suppressor is a high-speed, high-current, solid-state DIN rail mount device designed to protect equipment from transient over-voltages on high-speed data lines with RJ-45 connectors using pins 1-8. It performs this function by limiting the magnitude of transient over-voltages that are present on each pair relative to each other and relative to ground. Continuous bi-polar, bi-directional, non-interrupting protection is provided. The device utlizes silicon junction avalanche suppressor diodes as its suppression technology and automatically resets after each suppression function with no degradation of protection capabilities. It attaches in series with the load to be protected.

Description	Item-No.	Pack.-unit pcs
WAGO-PROTECT	**51186919**	1
10/100 Mbs fast ethernet surge protection		

Technical Data	
Electrical Service	
Max. continuing operating voltage	7.5 V Peak
Connector type	RJ-45
Protected RJ-45 pins	All pins
Electrical Performance	
Clamping voltage	12 V
Max. voltage protection level (10/1000s)	25 Vp @ 100 A
Response time (max.)	<5 ns
Attenuation	3 db @ 90 MHz
Max. leakage current	1 Micro Amp
Environmental	
Operating and storage temperature	-40° to +85° C
Relative Humidity	90%
Installation	
Mounting	DIN 35 mm Mounting Rail
Wiring	(1) RJ-45 receptacle input and (1) RJ-45 receptacle output
Mechanical	
Dimensions	0.8" x 0.8" x 3.0"
Weight	0.15 lb (0.068kg)
UL material flame rating	94-V0

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750-975

Ethernet Connector, RJ-45 IP20

Features:

The 8-pole RJ-45 connector features insulation displacement contacts that allow individual conductors to be simply cut to length without requiring any stripping or ferruling. This makes installation on site in hard to reach places easier (e.g. in suspended ceilings or in distribution boxes located close to machines). Wiring can be done directly from the reel without invalidating this cost benefit by time-consuming preparation of the wire ends.

The contacts can be re-wired, they are gas tight, vibration and pull-out resistant. They can therefore be used under harsh conditions like in close proximity to machines. The wiring block accommodates shielded (UTP) and unshielded (STP) cables up to 8 mm in diameter; transmission characteristics meet the requirements of Cat. 5e (acc. to ISO/IEC 11801 and EN 50173-1).

Description	Item-No.	Pack.-unit pcs
Ethernet Connector RJ-45, IP20	**750-975**	1
Tool-less RJ-45 connector		

General Technical Data	
Poles	8
Contact material	Bronze (CuSn6)
Contact plating	>1.2 µm Gold over 1.2 µm Nickel
Isolation material	Connector Polycarbonate (UL94-V0)
Housing material	PA 6.6 plastic, gray (UL94-V0)
Mating cycle	min. > 1000
Connection technology	IDC / Insulation Displacement Contact
	in accordance with 60352-4
Surface treatment IDC	Tin-plated, approx. 5 µm
Cross Section	Solid: 0.13 mm^2 - 0.24 mm^2
	AWG 26/1 - 23/1;
	Stranded: 0.14 mm2 - 0.26 mm2
	AWG 26/7 - 23/7
Core. isolations Ø	≤ 1.60 mm
Outer sleeve Ø	4.5 mm - 8.0 mm
Wire-strain relief	by means of plastic ridges
Cable-strain relief	> 50 N
Shield contact	>180° (cable shield)
Shield material	(CuZn), tin-plated 3 µm
Operating Temperature	-10° C to + 60° C
Storage Temperature	-40° C to + 70° C

Technical Data	
Electrical Technical Data	
Impedance	(Conductor - IDC) < 1 m
	(Shield - IDC) < 5 m
Connector shield	< 20 m
Insulation resistance	(100 V(> 500 M
Dielectric strength	(Contact-Contact) > 1000 V, 1 min.
	(Shield-Contact) >1500 V, 1 min.
Nominal current	1.75 A / 20° C
Approvals	Basis-Norm: IEC60602-7
	RJ-45 Category 5
	CD ISO/IEC 11801: 2002
	EN 50173: 2002
	EIA / TIA 568B: 2002

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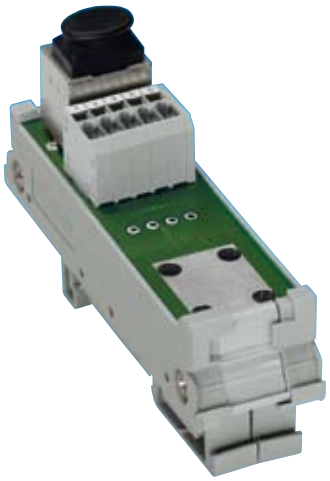
Interface Modules



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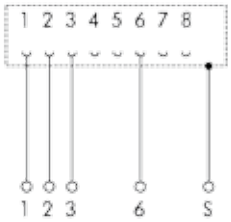

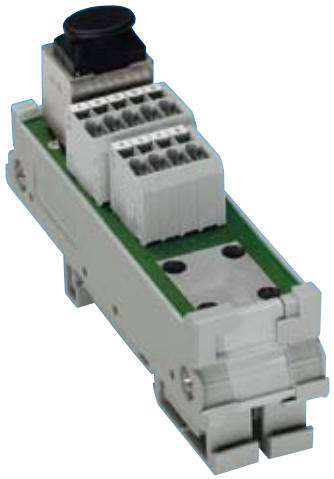

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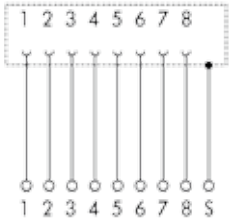

Description	Item-No.	Pack.-unit pcs
Ethernet interface module, w/RJ-45	**289-174**	1
Mounting carrier for DIN 35 rail		
Ethernet interface module, w/RJ-45	**289-175**	1
Mounting carrier for DIN 35 rail		
Accessories		
WAGO shield (screen) clamping saddle	**790-108**	1
11 mm wide; cable diameter up to 8 mm		

Technical Data	
Connecting Cable	min. CAT5
Max. transmission length	100 m.
Connector:	RJ-45 shielded
Min. mating cycles:	500
Current load:	≤1.5 A
Insulation resistance	>500m
Dielectric strength (contact-contact)	1 kV eff.
Contact resistance	typ. <20m
Ambient operating temperature	-20° C to +85° C
Dimensions (mm) W x H x L	24 x 85 x 40
incl. mounting feet or mounting carrier	Height from upper edge of DIN 35
Wire connection	Terminal strips with CAGE CLAMP®
	(WAGO series 739)
Cross sections	0.08 mm^2 - 1.5 mm^2 / AWG 28-14
Stripped lengths	5 - 6 mm / 0.22 in.
Approvals	ISO / IEC 118010: 2002-09;
	EN 55022

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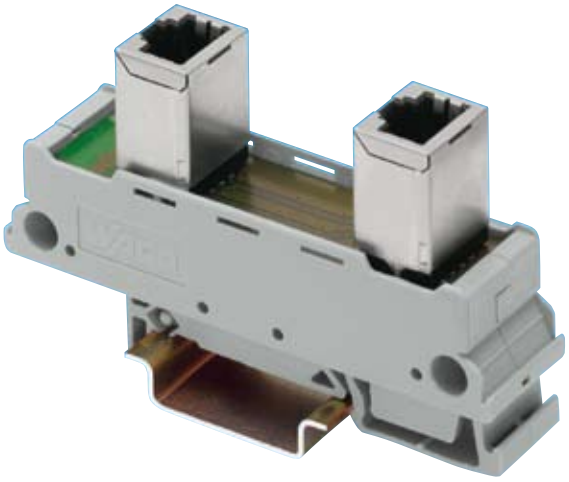
Interface Modules



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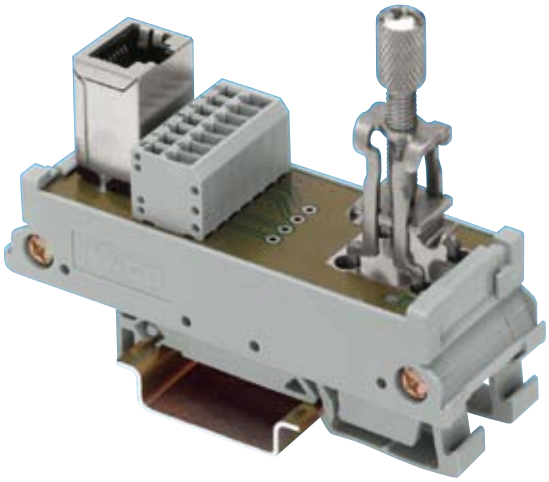

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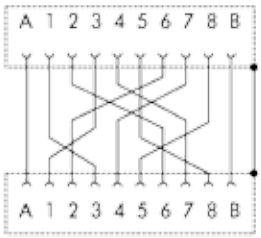

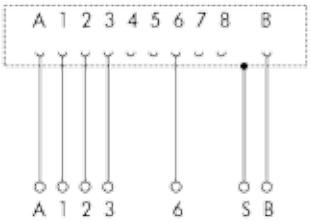

Description	Item-No.	Pack.-unit pcs
Ethernet interface module, DIN 35 rail	**289-177**	1
Crossover with 8 data, tp, ts		
Ethernet interface module, DIN 35 rail	**289-178**	1
Straight through		
Accessories		
WAGO shield (screen) clamping saddle	**790-108**	1
11 mm wide; cable diameter up to 8 mm		

Technical Data		
Connecting Cable		min. CAT5
Max. transmission length		100 m.
RJ45 Connector:		Y0ConJack-22 shielded
Min. mating cycles:		1000
Current load:		≤2.1 A
Insulation resistance		>500m
Dielectric strength (contact-contact)		1 kV eff.
Contact resistance		typ. 40m
Ambient operating temperature		-20° C to +85° C
Dimensions (mm) W x H x L	(289-178)	30 x 85 x 67
	(289-177)	21 x 85 x 44
incl. mounting feet or mounting carrier		Height from upper edge of DIN 35
Wire connection	(289-178)	Terminal strips with CAGE CLAMP® (WAGO series 739)
Cross sections	(289-178)	0.08 mm^2 - 1.5 mm^2 / AWG 28-14
Stripped lengths	(289-178)	5 - 6 mm / 0.22 in.
Approvals		ISO / IEC 118010: 2002-09; EN 55022

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51205068

Bulkhead RJ45 Socket

Features:

This handy bulkhead socket is ideal for passing an ethernet network in and out of an enclosure using standard RJ45 connectors.

- ▶ Provides IP20 protection when used
- ▶ Provides IP65 protection when capped (not used)
- ▶ Installs easily in 22mm mounting hole

Description	Item-No.	Pack.-unit pcs
Bulkhead RJ45 Socket	**51205068**	1

51205157

USB Socket

Features:

This handy bulkhead socket is ideal for extending a USB connection in and out of an enclosure using standard USB connectors.

- ▶ USB 2.0 type A plug
- ▶ 2 ft. extender cable (attached)
- ▶ Provides IP20 protection when used
- ▶ Provides IP65 protection when capped (not used)
- ▶ Installs easily in 22mm mounting hole

Description	Item-No.	Pack.-unit pcs
Bulkhead USB Socket	**51205157**	1

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Scalable Ethernet Solutions Come Full Circle

750-841:
- 32 Bit Ethernet based PLC, 10/100 Mbps
- Web-server, multitasking, real-time clock

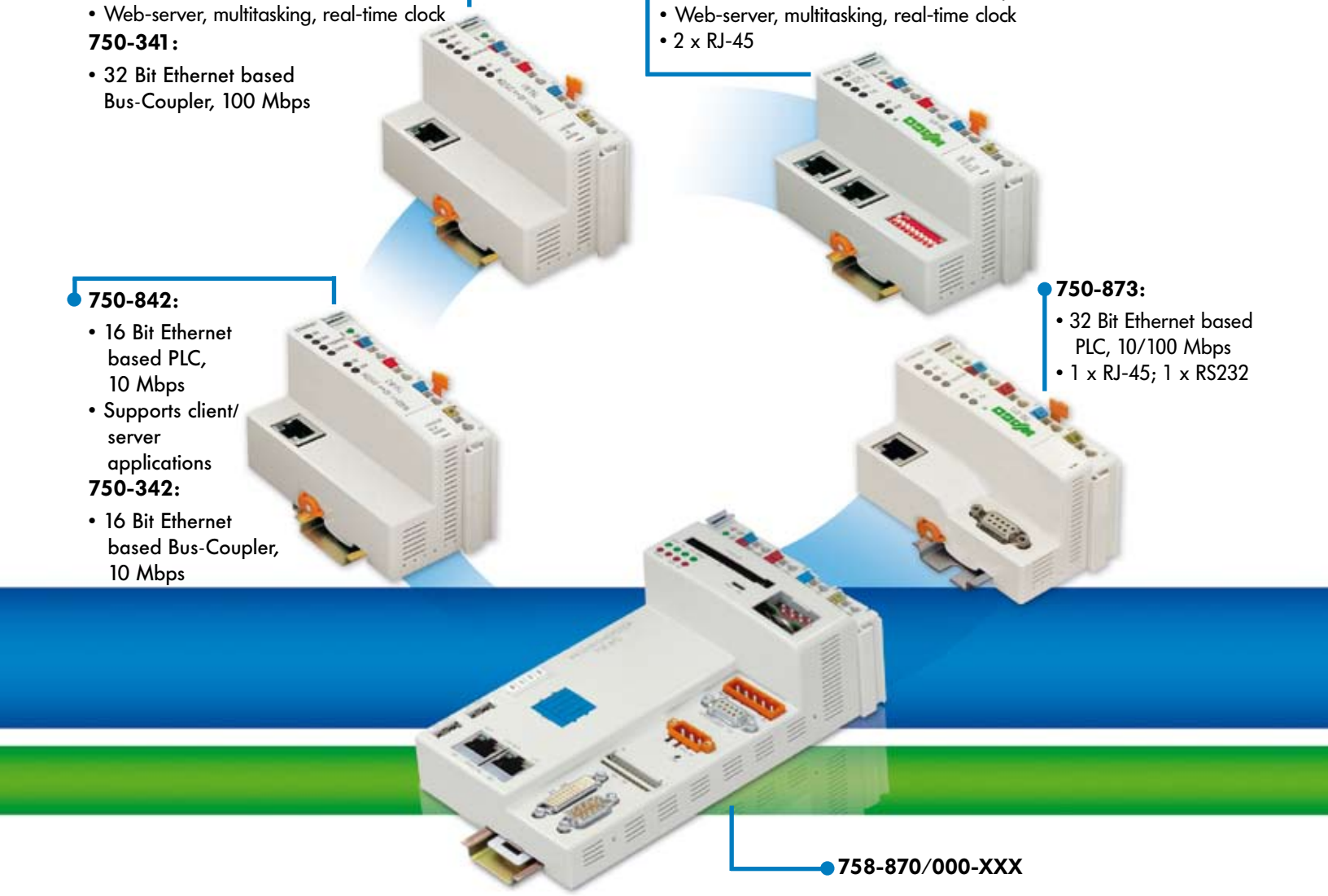
750-341:
- 32 Bit Ethernet based Bus-Coupler, 100 Mbps

750-871:
- 32 Bit Ethernet based PLC, 10/100 Mbps
- Web-server, multitasking, real-time clock
- 2 x RJ-45

750-842:
- 16 Bit Ethernet based PLC, 10 Mbps
- Supports client/ server applications

750-342:
- 16 Bit Ethernet based Bus-Coupler, 10 Mbps

750-873:
- 32 Bit Ethernet based PLC, 10/100 Mbps
- 1 x RJ-45; 1 x RS232



758-870/000-XXX

Ethernet Protocols	750-842	750-342	750-841	750-341	758-870	750-871	750-873	750-340	750-370	750-860	750-351	750-830
Modbus/TCP	●	●	●	●	●	●	●			●	●	●
Modbus/UDP	●	●	●	●	●	●	●			●		●
EtherNet/IP			●	●		●	●					
Multicast			●	●	●							
HTTP	●	●	●	●	●	●	●			●	●	●
FTP			●	●	●	●	●			●	●	●
SNMP			●	●	●	●	●					●
BootP/DHCP	●	●	●	●	●	●	●			●		●
SMTP	○	○	●	●	●	●	●					●
SOAP	○	○	○	○	○							
UCP/TAP	○	○	○	○	○							
SNTP			●	●	●	●	●			●		●
DNS			●	●	●	●	●			●		●
PROFINET								●	●			
LINUX										●		
SERCOS III											●	
BACNET/IP												●
NFS										●		

● - Supported ○ - Via Function Block Program (programmable devices only)

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