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"Ethernet goes Industry"

The successful concept of application-independent cabling is used also in industrial environments since several years, but high-speed data transmission isn't most important for active industrial components. Not only mechanical, but also the electrical specifications up to precedent conditions to reach industrial standard requirements.

Mechanical features for active industrial components:

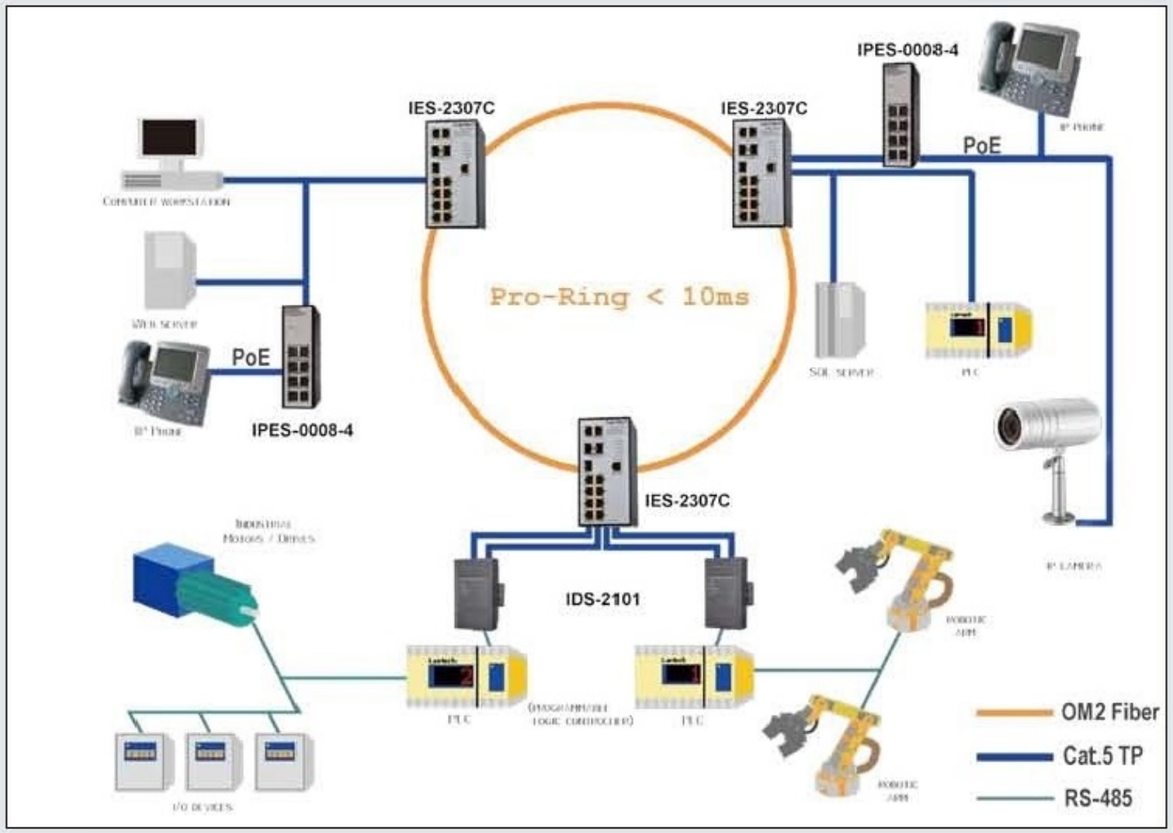
- Rugged
- Stability tested with with the following standards:
  IEC60068-2-32 (free fall),
  IEC60068-2-27 (shock),
  IEC 60068-2-26 (vibration)
- Degree of protection IP30
- EMI-secure metal housing accordint to FCC Class A, CE EN 61000-4-X and CE EN 61000-6-X standards
- Security standards according to UL, cUL, CE/EN 60950-1
- DIN-Rail mounting possible
- Temperature range stadard type -20°C .. +60°C, E-type -40°C ..+75°C

Active industrial components work with operation voltage range 12 V DC .. 48 V DC, hence external power supply is neccessary.
The main and redundant power connector are carried out via pluggable terminal block.

Mechanical features for active industrial components:

- Wide range of operation voltage 12 .. 48 V
- Redundant power supply
- Fanless operation
- Alarm contact for emergency events (e.g. like voltage drop)
- Reliability:

Permanent network accessibility has highest priority for the „automotive" sector. The redundant ring structure of the active components with the proprietary X-Ring protocol allows an extremely minimized transitory period (millisec.) to maintain or reconnect data signals in case of active network component malfunction to keep alive manufacturing and production lines.



Unmanaged Fast Ethernet Switch
5/8 x RJ45 10/100TX

Art.-No.	Description
IES-0005T	DIN-Rail Switch 5 x 10/100TX
IES-0008T	DIN-Rail Switch 8 x 10/100TX

Accessories	
Art.-No.	Accessories
DR-120-24	DIN-Rail Power Supply 24 V DC / 5 A, 120 W

- Auto MDI/MDI-X at each RJ45 port
- Wide range of operation voltage 12 .. 48 V DC
- Redundant power supply input
- Alarm contact for emergency events (e.g. like voltage drop)
- Temperature range -20°C .. 60°C *
- Rugged metal housing, EMI-secure, protection class IP30
- DIN-Rail or wall mounting possible

* extended temperature range types (-40°C .. +75°C) available on request

Unmanaged Fast Ethernet Switch
4 x RJ45 10/100TX + Fiber Uplink 100BaseFX SC-Duplex

Art.-No.	Description
IES-0104FT	DIN-Rail Switch 4 x 10/100TX + 1 x 100FX SC MM 2 km
IES-0104FT-30	DIN-Rail Switch 4 x 10/100TX + 1 x 100FX SC SM 30 km

Accessories	
Art.-No.	Accessories
DR-120-24	DIN-Rail Power Supply 24 V DC / 5 A, 120 W

- Auto MDI/MDI-X at each RJ45 port
- Wide range of operation voltage 12 .. 48 V DC
- Redundant power supply input
- Alarm contact for emergency events (e.g. like voltage drop)
- Temperature range -20°C .. +60°C *
- Rugged metal housing, EMI-secure, protection class IP30
- DIN-Rail or wall mounting possible

* extended temperature range types (-40°C .. +75°C) available on request

Unmanaged Fast Ethernet Switch
4 x 10/100TX + 2 x 100 SFP

Art.-No.	Description
IES-1204FT	DIN-Rail Switch 4 x 10/100TX + 2 x 100SFP

Accessories	
Art.-No.	Accessories
DR-120-24	DIN-Rail Power Supply 24 V DC / 5 A, 120 W

- Management: SNMP, WEB, RMON
- Auto MDI/MDI-X at each RJ45 port
- Support of Ethernet Ring protocol Pro-Ring
- Wide range of operation voltage 12 .. 48 V DC
- Alarm contact for emergency events (e.g. like voltage drop)
- Temperature range -40°C .. +70°C
- Rugged metal housing, EMV-secure, protection class IP30
- DIN-Rail or wall mounting possible

Managed Fast Ethernet Switch
8 x RJ45 10/100TX

Art.-No.	Description
IES-2008A	DIN-Rail Switch 8 x 10/100TX, SNMP, Pro-Ring

Accessories	
DR-120-24	DIN-Rail Power Supply 24 V DC / 5 A, 120 W

- Management: SNMP, WEB, RMON
- Auto MDI/MDI-X at each RJ45 port
- Support of Ethernet Ring protocol Pro-Ring
- Wide range of operation voltage 12 .. 48 V DC
- Redundant power supply input
- Alarm contact for emergency events (e.g. like voltage drop)
- Temperature range -20°C .. +60°C *
- Rugged metal housing, EMV-secure, protection class IP30
- DIN-Rail or wall mounting possible

* extended temperature range types (-40°C .. +75°C) available on request

Managed Fast Ethernet Switch "DIDO"
7 x RJ45 10/100TX + 3 x RJ45 10/100/1000T or 3 x SFP Dual Speed

Art.-No.	Description
IES-2307C	DIN-Rail Switch 7 x 10/100TX + 3 x 1000T / SFP Dual Speed, SNMP, Pro-Ring

Accessories	
DR-120-24	DIN-Rail Power Supply 24 V DC / 5 A, 120 W

- Management: SNMP, WEB, RMON
- Auto MDI/MDI-X at each RJ45 port
- Dual Speed SFP supports MiniGBICs for 100FX or 1000BaseX
- Support of Ethernet Ring protocol Pro-Ring
- Wide range of operation voltage 12 .. 48 V DC
- Redundant power supply input
- Alarm contact for emergency events (e.g. like voltage drop)
- 2 x DIDO high/low transistor contacts for events (digital Input - digital output)
- Temperature range -20°C .. +60°C *
- Rugged metal housing, EMI-secure, protection class IP30
- DIN-Rail or wall mounting possible

* extended temperature range types (-40°C .. +75°C) available on request

Managed Fast Ethernet Switch
6 x RJ45 10/100TX + 2 x Fiber Uplink 100BaseFX SC-Duplex

Art.-No.	Description
IES-2206F-II	DIN-Rail Switch 6 x 10/100TX + 2 x 100FX SC MM 2 km, SNMP, Pro-Ring
IES-2206F-II SC	DIN-Rail Switch 6 x 10/100TX + 2 x 100FX SC SM 30 km, SNMP, Pro-Ring

Accessories	
DR-120-24	DIN-Rail Power Supply 24 V DC / 5 A, 120 W

- Management: SNMP, WEB, RMON
- Auto MDI/MDI-X at each RJ45 port
- Support of Ethernet Ring protocol Pro-Ring
- Wide range of operation voltage 12 .. 48 V DC
- Redundant power supply input
- Alarm contact for emergency events (e.g. like voltage drop)
- Temperature range -20°C .. +60°C *
- Rugged metal housing, EMI-secure, protection class IP30
- DIN-Rail or wall mounting possible

* extended temperature range types (-40°C .. +75°C) available on request

Managed Gigabit Ethernet Switch
6 x RJ45 10/100/1000T + 2 x RJ45 10/100/1000T or 2 x SFP Dual Speed

Art.-No.	Description
IGS-2206C	DIN-Rail Switch 6 x 10/100/1000T + 2 x 1000T / SFP Dual Speed, SNMP, Pro-Ring

Accessories	
DR-120-24	DIN-Rail Power Supply 24 V DC / 5 A, 120 W

- Management: SNMP, WEB, RMON
- Auto MDI/MDI-X at each RJ45 port
- Dual Speed SFP supports MiniGBICs for 100FX or 1000BaseX
- Support of Ethernet Ring protocol Pro-Ring
- Wide range of operation voltage 12 .. 48 V DC
- Redundant power supply input
- Alarm contact for emergency events (e.g. like voltage drop)
- Temperature range -20°C .. +60°C *
- Rugged metal housing, EMI-secure, protection class IP30
- DIN-Rail or wall mounting possible

* extended temperature range types (-40°C .. +75°C) available on request

Managed Fast Ethernet Switch
8/16 x RJ45 10/100TX + 2 x RJ45 10/100/1000T or 2 x SFP Dual Speed

Art.-No.	Description
IES-2208C	DIN-Rail Switch 8 x 10/100TX + 2 x 1000T / SFP Dual Speed, SNMP, Pro-Ring
IES-2216C	DIN-Rail Switch 16 x 10/100TX + 2 x 1000T / SFP Dual Speed, SNMP, Pro-Ring

Accessories	
DR-120-24	DIN-Rail Power Supply 24 V DC / 5 A, 120 W

- Management: SNMP, WEB, RMON
- Auto MDI/MDI-X at each RJ45 port
- Dual Speed SFP supports MiniGBICs for 100FX or 1000BaseX
- Support of Ethernet Ring protocol Pro-Ring
- Wide range of operation voltage 12 .. 48 V DC
- Redundant power supply input
- Alarm contact for emergency events (e.g. like voltage drop)
- Temperature range -20°C .. +60°C *
- Rugged metal housing, EMI-secure, protection class IP30
- DIN-Rail or wall mounting possible

* extended temperature range types (-40°C .. +75°C) available on request

Managed Fast Ethernet Device Server "Serial over IP"
2 x RJ45 10/100TX + 1 x DB9S RS232/422/485

Art.-No.	Description
IDS-2102	DIN-Rail Device Server 2 x RJ45 10/100TX + 1 x DB9S RS232/422/485, SNMP

Accessories	
DR-120-24	DIN-Rail Power Supply 24 V DC / 5 A, 120 W

- Combines serial data transmission of the standards RS-232/422/485 with modern Ethernet communication via IP
- Management: SNMP, Web-Interface
- Link redundancy due to dual Ethernet Interface (2 x RJ45)
- Access security via HTTPS und SSH
- Wide range of operation voltage 12 .. 48 V DC
- Redundant power supply input
- Temperature range -20°C .. +60°C
- OVP 15 kV ESD for all serial signals
- Rugged metal housing, EMI-secure, protection class IP30
- DIN-Rail or wall mounting possible

Managed Fast Ethernet Switch Chassis
3 x 10/100 Slots + 2 x RJ45 10/100/1000T or 2 x SFP Gigabit

- 24 Fast Ethernet ports RJ45 10/100TX or SFP 100FX
- Management: SNMP, WEB, RMON
- Auto MDI/MDI-X at each RJ45-Port
- Support of Ethernet Ring protocol Pro-Ring
- Integrated power supply, redundant operating voltage input 1 2 .. 48 V DC
- Temperature range 0°C .. +45°C
- Rugged metal housing, EMI-secure, 19"/1U

Art.-No.	Description
LES-2400-RPS	Switch Chassis 3 x 10/100 Slots + 2 x 1000T / SFP, SNMP, Pro-Ring
8X100M-SFP	Switch Module 8 x 100M SFP
8X100T-MODUL	Switch Module 8 x 10/100BaseTX

Managed Gigabit Ethernet Switch Chassis
3 x Gigabit Slots for 8 x RJ45 10/100/1000T or 8 x SFP Gigabit

Art.-No.	Description
LGS-2300-RPS	Switch Chassis 3 x Gigabit Slots , SNMP
8-GTX-MODUL	Switch Module 8 x RJ45 10/100/1000BaseTX
8-MGIBIC-MODUL	Switch Module 8 x 1000M SFP

- 24 Gigabit ports 10/100/1000T or SFP 1000BaseX
- Management: SNMP, WEB, RMON
- Auto MDI/MDI-X at each RJ45-Port
- Integrated power supply, redundant operating voltage input 1 2 .. 48 V DC
- Temperature range 0°C .. +45°C
- Rugged metal housing, EMI-secure, 19"/1 HE

Managed Gigabit Ethernet Switch
24 x RJ45 10/100/1000T + 4 x SFP 1000BaseX Combo

Art.-No.	Description
LGS-2424C	Gigabit Switch 24 x 10/100/1000T + 4 x SFP 1000BaseX Combo, SNMP

- Management: SNMP, WEB, RMON
- RJ45 / SFP Combo Ports - shared operation of Ports 21 - 24
- Temperature range 0°C .. +45°C
- Auto MDI/MDI-X at each RJ45-Port
- Integrated power supply
- Rugged metal housing, EMI-secure, 19"/1 U

Managed Fast Ethernet Switch "Power over Ethernet"
8 x RJ45 10/100TX PoE + 2 x RJ45 10/100/1000T or 2 x SFP Dual Speed

- Management: SNMP, WEB, RMON
- Auto MDI/MDI-X at each RJ45 port
- Dual Speed SFP supports MiniGBICs for 100FX or 1000 BaseX
- Support of Ethernet Ring protocol Pro-Ring
- 8 x PoE injector IEEE802.3af up to 84 W totally
- External power supply 48 V DC / 2 A included
- Temperature range 0°C .. +45°C
- Rugged metal housing, EMI-secure
- 19"/1U or wall mounting possible

Art.-No.	Description
LPES-2208CA	Switch 8 x 10/100TX PoE + 2 x 1000T / SFP Dual Speed, SNMP, Pro-Ring

Managed Fast Ethernet Switch "Power over Ethernet"
24 x RJ45 10/100TX PoE + 2 x RJ45 10/100/1000T or 2 x SFP Dual Speed

Art.-No.	Description
LPES-2224C	Switch 24 x 10/100TX PoE + 2 x 1000T / SFP Dual Speed, SNMP

- Management: SNMP, WEB, RMON
- Auto MDI/MDI-X at each RJ45 port
- Dual Speed SFP supports MiniGBICs for 100FX or 1000 BaseX
- 24 x PoE injector IEEE802.3af up to 180 W totally
- Integrated power supply 200 W
- Temperature range 0°C .. +45°C
- Rugged metal housing, EMI-secure, 19"/1U

Managed Fast Ethernet Switch "Power over Ethernet"
24 x RJ45 10/100TX PoE + 2 x RJ45 10/100/1000T or 2 x SFP Dual Speed

- Management: SNMP, WEB, RMON
- Auto MDI/MDI-X at each RJ45-Port
- Dual Speed SFP supports MiniGBICs for 100FX or 1000 BaseX
- Support of Ethernet Ring protocol Pro-Ring
- 24 x PoE injector IEEE802.3af
- Redundant power supply input
- Operation voltage of 48 V DC required:
  240 W power for 24 x PoE 7.5 W respectively 480 W for 24 x PoE 15.4 W
- Alarm contact for emergency events (e.g. like voltage drop)
- Temperature range -40°C .. +70°C
- Rugged metal housing, EMI-secure, 19"/1 U

Art.-No.	Description
IPES-2224C-24	Switch 24 x 10/100TX PoE + 2 x 1000T / SFP Dual Speed, SNMP, Pro-Ring

Accessories	
Art.-No.	Accessories
SDR-240-48	DIN-Rail Power Supply 48 V DC / 5 A, 240 W
SDR-480-48	DIN-Rail Power Supply 48 V DC / 10 A, 480 W

Managed Fast Ethernet Switch "Power over Ethernet"
8 x RJ45 10/100TX PoE + 2 x RJ45 10/100/1000T or 2 x SFP Dual Speed

Art.-No.	Description
IPES-2208C	DIN-Rail Switch 8 x 10/100TX PoE 15.4 W + 2 x 10/100/1000T or 2 x SFP Dual Speed

Accessories	
DR-120-48	DIN-Rail Power Supply 48 V DC / 2.5 A, 120 W

- Management: SNMP, WEB, RMON
- Auto MDI/MDI-X at each RJ45 port
- Dual Speed SFP supports MiniGBICs for 100FX or 1000BaseX
- Support of Ethernet Ring protocol Pro-Ring
- 8 x PoE Injector IEEE802.3af
- Power supply 48 V DC / 120 W required
- Redundant power supply input
- Alarm contact for emergency events (e.g. like voltage drop)
- Temperature range -20°C .. +60°C *
- Rugged metal housing, EMI-secure, protection class IP30
- DIN-Rail or wall mounting possible

* extended temperature range types (-40°C .. +75°C) available on request

Unmanaged Fast Ethernet Switch "Power over Ethernet"
4 x RJ45 10/100TX PoE + 4 x RJ45 10/100TX

Art.-No.	Description
IPES-0008-4	DIN-Rail Switch 4 x 10/100TX PoE + 4 x 10/100TX

Accessories	
DR-120-24	DIN-Rail Power Supply 24 V DC / 5 A, 120 W

PoE with 24 V DC

- 4 x PoE injector IEEE802.3af
- Operation voltage of 24 .. 48 V DC required
- PoE IEEE802.3af - function with 24 V DC guaranteed
- Redundant power supply input
- Alarm contact for emergency events (e.g. like voltage drop)
- Temperature range -40°C .. +75°C
- Rugged metal housing, EMI-secure, protection class IP30
- DIN-Rail or wall mounting possible

Unmanaged Fast Ethernet Switch "Power over Ethernet"
4 x RJ45 10/100TX PoE + 1 x RJ45 10/100TX

Art.-No.	Description
IPES-0005T-4	DIN-Rail Switch 4 x 10/100TX PoE + 1 x 10/100TX

Accessories	
DR-120-48	DIN-Rail Power Supply 48 V DC / 2.5 A, 120 W

- 4 x PoE injector IEEE802.3af
- Operation voltage of 48 V DC required
- Redundant power supply input
- Alarm contact for emergency events (e.g. like voltage drop)
- Temperature range -20°C .. +60°C *
- Rugged metal housing, EMI-secure, protection class IP30
- DIN-Rail or wall mounting possible

* extended temperature range types (-40°C .. +75°C) available on request

Unmanaged Fast Ethernet Media Converter "Power over Ethernet"
1 x RJ45 10/100TX PoE + 1 x Fiber Uplink 100BaseFX SC-Duplex

Art.-No.	Description
IPEC-0101FT	DIN-Rail Converter 1 x 10/100TX PoE + 1 x 100FX SC MM 2 km

Accessories	
DR-120-48	DIN-Rail Power Supply 48 V DC / 2.5 A, 120 W

- 1 x PoE Injector IEEE802.3af
- Operation voltage of 48 V DC required
- Redundant power supply input
- Temperature range -20°C .. +60°C *
- Rugged metal housing, EMI-secure, protection class IP30
- DIN-Rail or wall mounting possible

Unmanaged Fast Ethernet Media Converter
1 x RJ45 10/100TX + 1 x Fiber Uplink 100BaseFX SC-Duplex

Art.-No.	Description
IEC-0101F-SC	DIN-Rail Converter 1 x 10/100TX + 1 x 100FX SC MM 2 km
IEC-0101F-SC30	DIN-Rail Converter 1 x 10/100TX + 1 x 100FX SC SM 30 km

Accessories	
DR-120-24	DIN-Rail Power Supply 24 V DC / 5 A, 120 W

- Wide range of operation voltage 9 .. 56 V DC
- Auto-MDI/MDI-X function, Auto-Negotiation Speed, Half/ Full Duplex usw.
- Redundant power supply input
- Temperature range -20°C .. +60°C *
- Rugged metal housing, EMI-secure, protection class IP30
- DIN-Rail or wall mounting possible

* extended temperature range types (-40°C .. +75°C) available on request

MiniGBIC SFP Transceiver

Art.-No.	Description	Speed	Medium	Link Distance
MGBIC-1000LX	MiniGBIC 1000LX SFP LC-Duplex	Gigabit	Singlemode	10 km
MGBIC-1000SX	MiniGBIC 1000SX SFP LC-Duplex	Gigabit	Multimode	550 m
MGBIC-1000T	MiniGBIC 10/100/1000T RJ45	Gigabit	Twisted Pair	100 m
MGBIC-100LX	MiniGBIC 100Base FX LC-Duplex SM	Fast Ethernet	Singlemode	30 km
MGBIC-100SX	MiniGBIC 100Base FX LC-Duplex MM	Fast Ethernet	Multimode	2 km

Optical Bypass Switch 4x4

Art.-No.	Description
DR-120-24	DIN-Rail Power Supply 24 V DC / 5 A, 120 W, Mean Well
DR-120-48	DIN-Rail Power Supply 48 V DC / 2.5 A, 120 W, Mean Well
SDR-240-48	DIN-Rail Power Supply 48 V DC / 5 A, 240 W, Mean Well
SDR-480-48	DIN-Rail Power Supply 48 V DC / 10 A, 480 W, Mean Well

- Bypass function with any Gigabit fiber in-line device 1000 Mbps or 10Gbps
- Automatically switches network traffic through added in-line devices or bypasses devices that are about to be removed or at power loss
- Power supply 12 .. 48 V DC
- High-speed switching <5 ms, insertion loss max. 1.6 dB
- Temperature range 12 .. 48 V DC
- Rugged metal housing , protection class IP30
- DIN-Rail or wall mounting possible

DIN-Rail Power Supply
Mean Well

Art.-No.	Description
DR-120-24	DIN-Rail Power Supply 24 V DC / 5 A, 120 W, Mean Well
DR-120-48	DIN-Rail Power Supply 48 V DC / 2.5 A, 120 W, Mean Well
SDR-240-48	DIN-Rail Power Supply 48 V DC / 5 A, 240 W, Mean Well
SDR-480-48	DIN-Rail Power Supply 48 V DC / 10 A, 480 W, Mean Well