

An aerial view of a city skyline at dusk. The sky is a mix of orange, yellow, and blue. In the foreground, several skyscrapers are prominent, with their windows glowing with interior lights. The city extends into the distance, with a dense grid of buildings and streets. The overall atmosphere is one of a bustling, modern urban environment.

MICROSENS

Enterprise Networks
Industrial Solutions

MICROSENS

Network Components

Smart Building Solutions

Management Software

Network Management Platform (NMP)

Smart Building Manager

Enterprise Networks



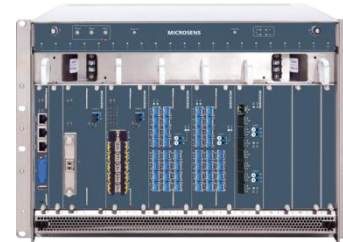
- Fiber to the Office (FTTO)
- Basic Fiber Optic Products (BFOP)

Industrial Solutions



- For harsh environments
- Industrial reliability

Optical Transport



- Wide area location interconnection
- Data center interconnection

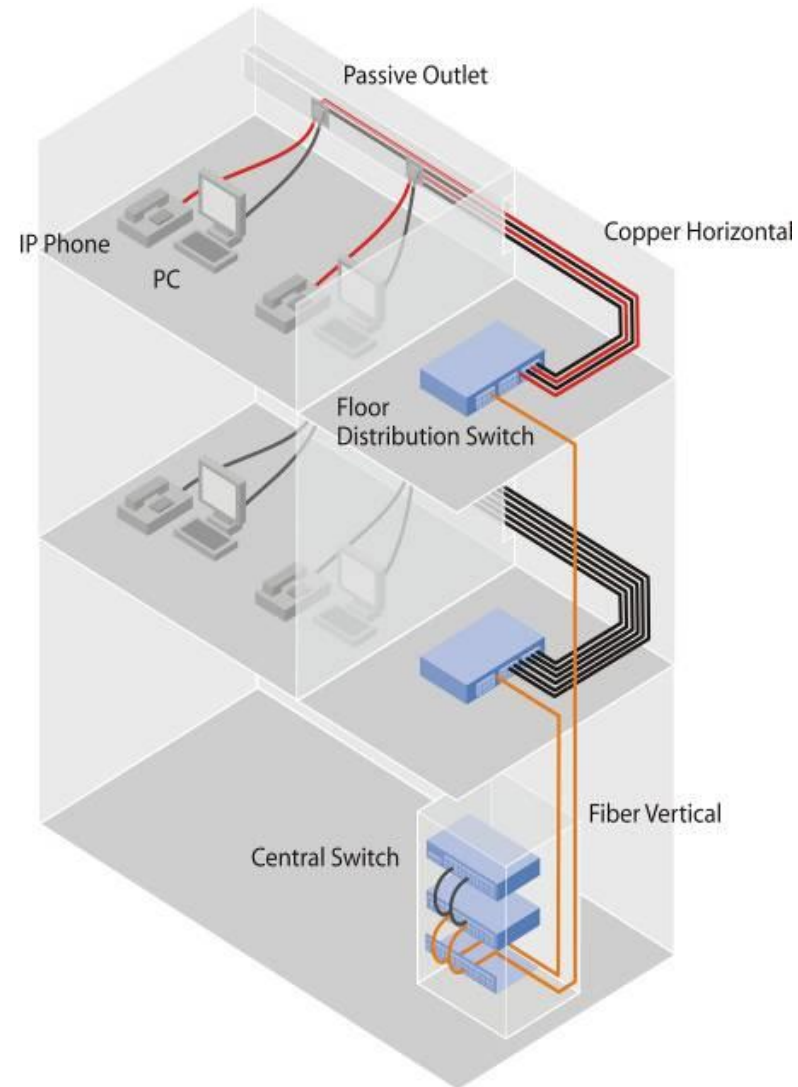
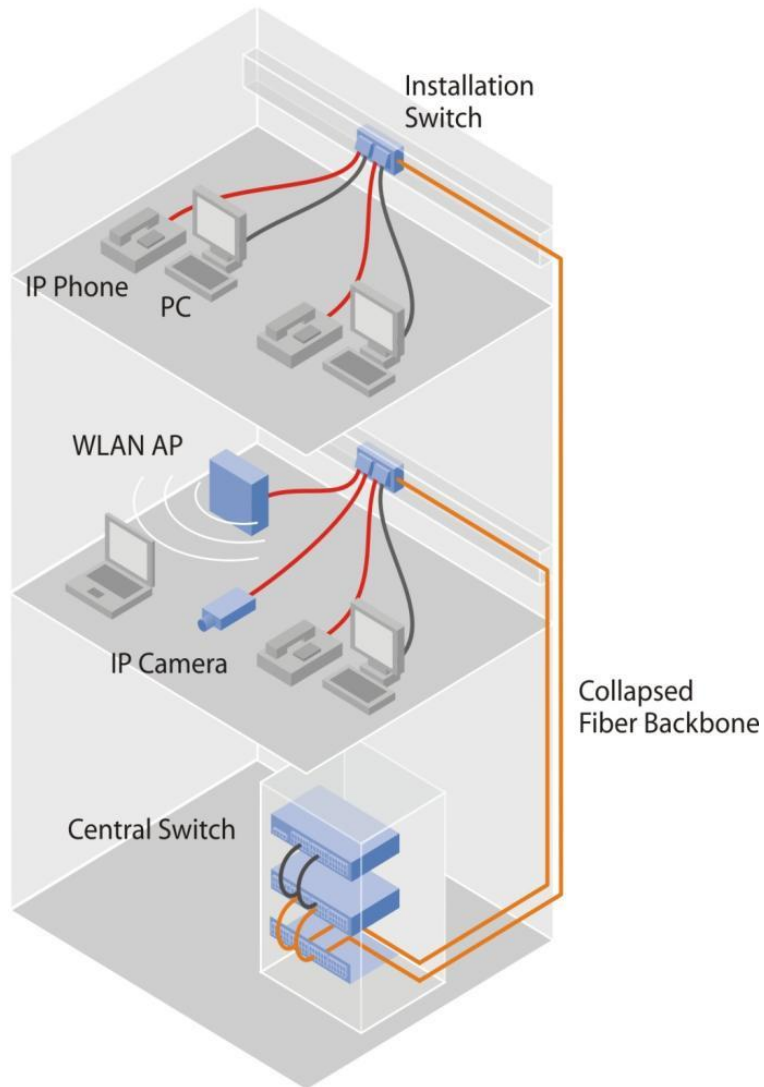
Smart Lighting & Smart Automation



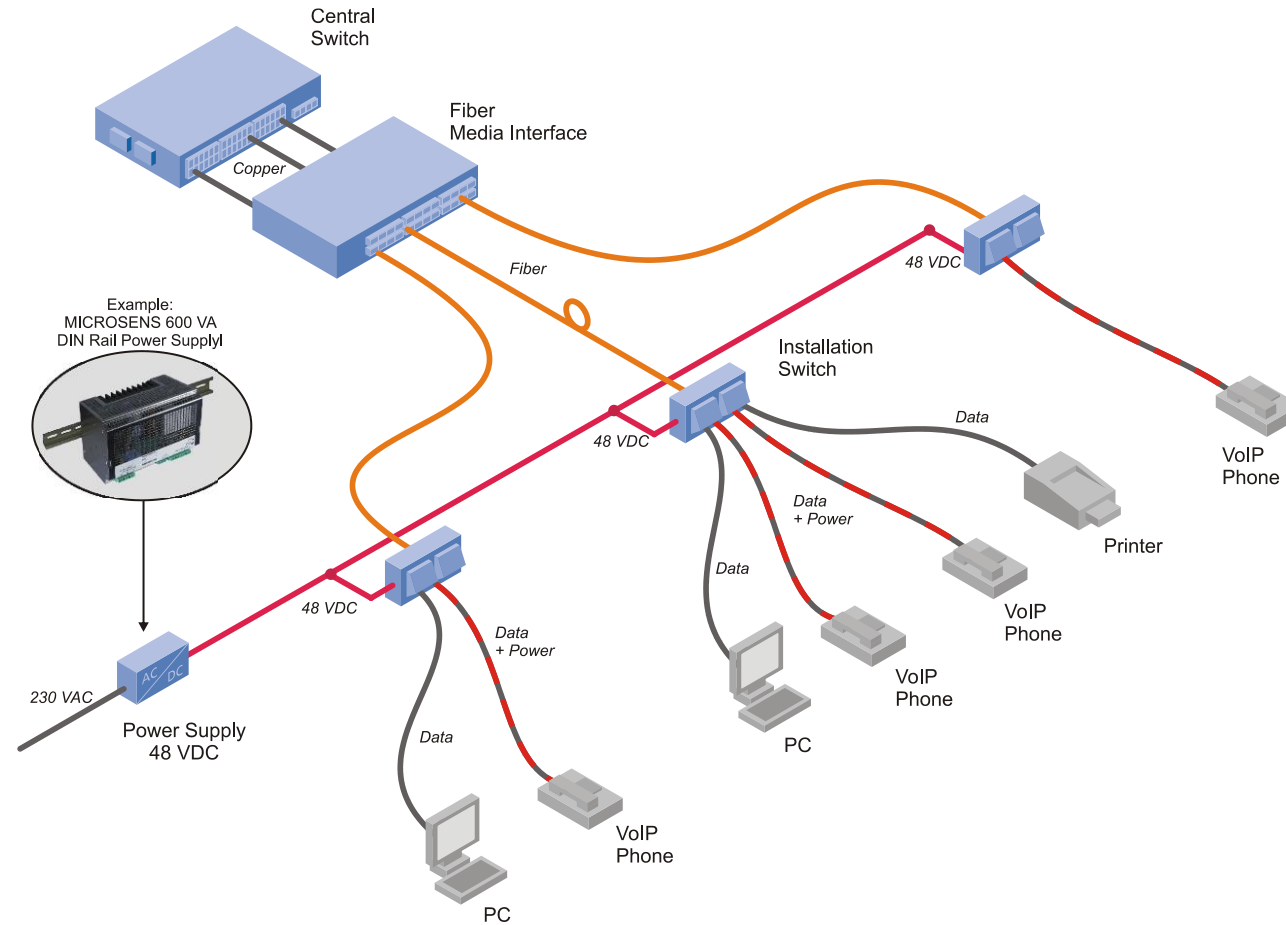
FTTO - portfolio

Name	G6-HW2	G6-HW2-Medical	G6-HW2-Ruggedized	G7-8Port	G7-MACSec	G7-10G	G7X
Article No.	MS4402xx	MS44520xM	MS4402xx-xMXx	MS440408PM-54 MS440418PM-54	MS440407PM-54 MS440417PM-54	MS440507PM-54-NA MS440517PM-54-NA	MS440507PM
Power	DC/AC	DC/AC	DC/AC	DC	DC	DC	DC
PoE	Yes/No	No	Yes/No	Yes	Yes	Yes	Yes
PoE Budget	60W	-	60W	120W	120W	120W	120W
Total ports	6	6	6	8	8	8	7
Uplinks	1G	1G	1G	1G	1G	10G	10G
Downlink	1G	1G	1G	1G	1G	1G	1G/multigig
Macsec	No	No	No	No	Yes	No	No
Docker	No	No	No	Yes	Yes	Yes	Yes (limited to 1 app)
Multigig Port	No	No	No	No	No	No	Yes
Vertical/Horizontal variant	Both	Horizontal	Both	Both	Both	Both	Horizontal
Family	G6-HW2	G6-HW2	G6-HW2	G7	G7	G7	G7X

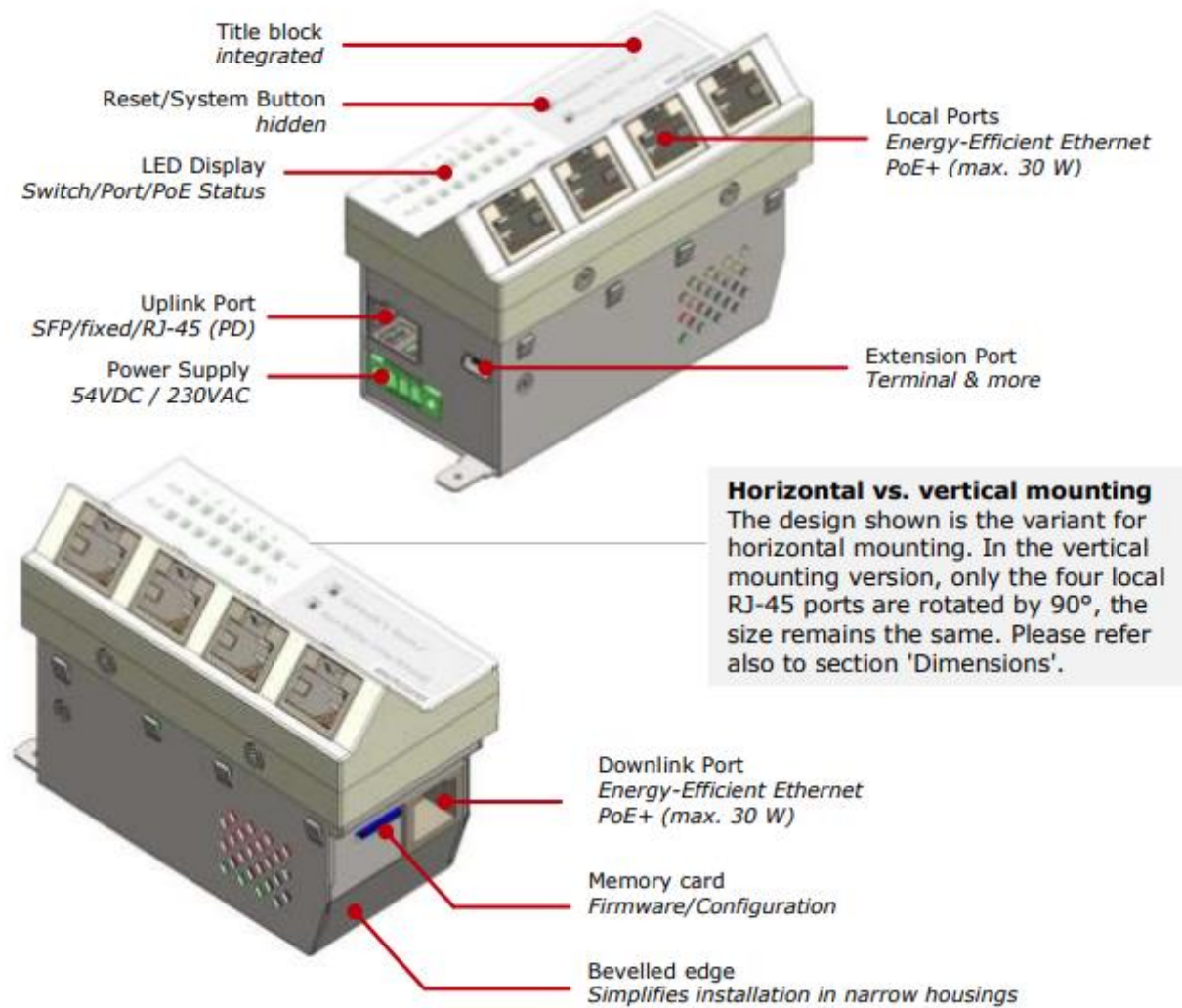
FTTO vs Structured Cabling



FTTO Portfolio



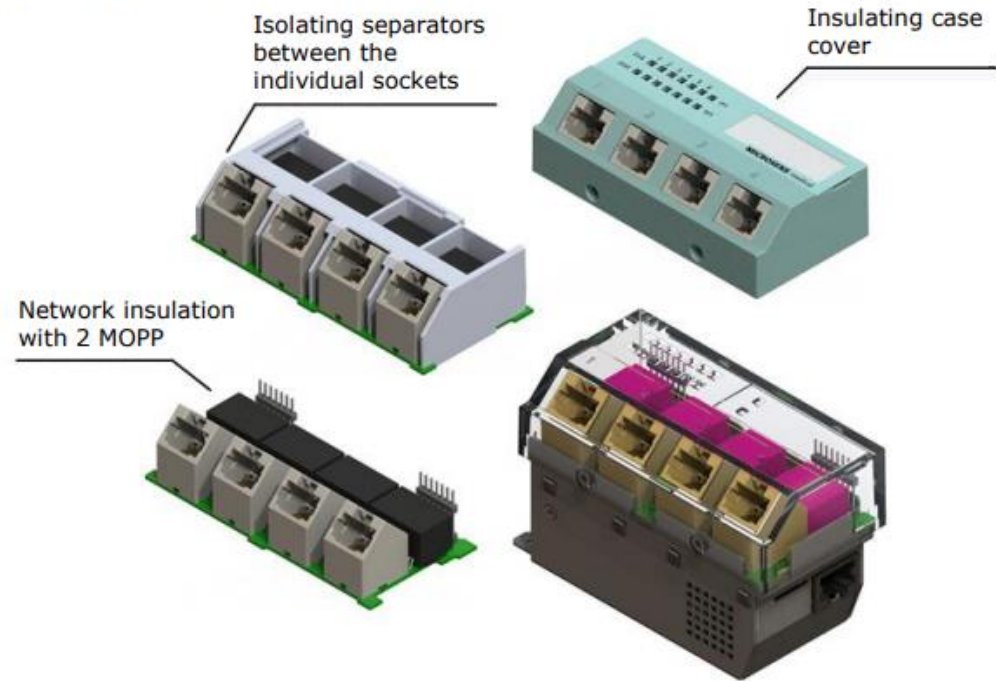
G6-HW2



G6-HW2-Medical



The transformers, which have a dielectric strength of more than 4 kV and 2x MOPP insulation resistance, guarantee that all terminal equipment connected to the Medical Switch is galvanically isolated, thus protecting it from disruptions in the power supply. The coating of the RJ-45 ports and the case cover are made of insulating plastic materials, thus providing additional galvanic touch protection.



MOPP – Means of Patient Protection

MOPP is a measure for describing the level of protection of a patient against electric shocks. This protection is achieved through construction measures, such as isolating different electrical sections from one another. One MOPP stands for simple insulation, two MOPP for double or reinforced insulation with a dielectric strength of at least 4,000 volts (4 kV) over a 60-second period. This is set down in the international standard IEC 60601-1 which was adopted within the European Union as EN 60601-1.

G6-HW2-Ruggedized



IP67 mast box with Ruggedized Micro-Switch ready for use (Image. MS711000-230NT48)



IP67 mast box closed with additional PG13 gland

G6-HW2-Ruggedized...



Mounting in Mast



Use of the mast hook



Outdoor mounting on mast

G7-8-Port



8x 1G Up- and Downlinks (IEEE 802.3ab/z)

2x 100/1000Base-X and 6x 10/100/1000Base-T Ports



PoE+ PSE User- and Downlink ports (IEEE 802.3at)

5x 10/100/1000Base-T User ports PoE(+) and 1x 10/100/1000Vase-T PD(+)



Compact Mounting Format M45

Compact M45 mounting format for easy and construction conform mounting



Fanless Design

Easy to maintain hardware design, no noise emissions



Docker Virtualization Environment

Integrated Docker system for free programming of custom functions



Standardized network redundancy (ERPS according to G.8032v2)

Feature set for special redundancy topologies (e.g. ring)



MICROSENS NMP integrated

Integrated in MICROSENS NMP software for simple configuration and administration

G7-MACSec



8x 1G Up- and Downlinks (IEEE 802.3ab/z)

2x 100/1000Base-X and 6x 10/100/1000Base-T Ports



PoE+ PSE User- and Downlink ports (IEEE 802.3at)

5x 10/100/1000Base-T User ports PoE(+) and 1x 10/100/1000Base-T PD(+)



MACsec Security (IEEE 802.1AE)

MICROSENS SECURE+ Feature set for high level of IT security incl. MACsec



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Integrated in MICROSENS NMP software for simple configuration and administration

G7-10G



2x 10G Up- and Downlinks (IEEE 802.3ae)

2x 1/10GBase-R Ports



8x 1G Up- and Downlinks (IEEE 802.3ab/z)

6x 10/100/1000Base-T Ports



PoE+ PSE User- and Downlink ports (IEEE 802.3at)

5x 10/100/1000Base-T User ports PoE(+) and 1x 10/100/1000Vase-T PD(+)



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Integrated in MICROSENS NMP software for simple configuration and administration

G7X



10G Uplinks (IEEE 802.3ae)

2x 1/10G uplink for maximum performance and flexibility in the FTTO network



2.5/5G Downlink (IEEE 802.3bz)

Multi Gigabit port optimised for Wi-Fi 6 network operation



PoE++ PSE Local Port (IEEE 802.3bt)

Downlink with up to 60W PoE supply



IT Security

MICROSENS SECURE feature set for a high level of IT security



Compact Mounting Format M45

Compact M45 format for easy and construction conform mounting



Fanless Design

No noise emission at the workplace



Docker Virtualization Environment





Integrated Docker system for free programming of custom functions



Standardised Network Redundancy (ERPS nach G.8032v2)

Feature set for special redundancy topologies in the FTTO network

19" PoE rack switches

Article No.	MS400835M	MS400970M	MS400980M	MS400981M
Picture				
Power	AC	AC	AC	AC
Redundant power supply	No	Yes	No	No
PoE	IEEE 802.3af/at	IEEE 802.3af/at/bt	IEEE 802.3af/at	IEEE 802.3af/at
PoE Budget	370W	1900W	390W	350W
Total ports	28	28	28	28
Uplinks	4x 1/10GBase-X	4x 1000Base-X	4x 1/10GBase-X	4x 1/10GBase-X
Downlink	24x 10/100/1000Base-T	24x 10/100/1000Base-T	24x 10/100/1000Base-T	24x 10/100/1000Base-T
L3 functionality	Yes	No	Yes	Yes
Switching Capacity	128 Gbps	56Gbps	128 Gbps	128 Gbps
Fan	Yes	Yes	Yes	No
Stacking	No	No	No	No



Layer3

Layer3 feature set for broad application diversity



10G Uplinks (IEEE 802.3ae)

4 x 1/10G uplink ports as SFP/SFP+ version



PoE+ PSE local ports (IEEE 802.3at)

PoE/PoE+ PSE Ports with up to 30W per port



IT Security

Feature set for high level of IT security



Network redundancy

Feature set for meshed topologies



MICROSENS Gigabit Ethernet Switch with 10G Uplinks

Port	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Speed	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Console
Reset

10PA.10 10PA.11 10PA.12 10PA.13 10PA.14 10PA.15 10PA.16 10PA.17 10PA.18 10PA.19 10PA.20 10PA.21 10PA.22 10PA.23 10PA.24

10/100G SFP+
25 26 27 28
USB



PoE++ PSE Local Ports (IEEE 802.3bt)

PoE/PoE++ PSE Local Ports with up to 90W per port, PoE budget 1900 W



IT Security

Feature set for high level of IT security



Network Redundancy

Feature set for meshed topologies



MICROSENS NMP Integrated*

Integrated in MICROSENS NMP software for clear administration and easy group configurations





Layer3

Layer3 feature set for broad application diversity



10G uplinks (IEEE 802.3ae)

4 x 1/10G uplink ports in SFP/SFP+ version



PoE+ PSE Local Ports (IEEE 802.3at)

PoE/PoE+ PSE Local Ports with up to 30W per port, PoE budget 390W



IT Security

Feature set for high level of IT security



Network redundancy

Feature set for meshed topologies



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Layer3

Layer3 feature set for broad application diversity



10G uplinks (IEEE 802.3ae)

4 x 1/10G uplink ports in SFP/SFP+ version



PoE+ PSE Local Ports (IEEE 802.3at)

PoE/PoE+ PSE Local Ports with up to 30W per port, PoE budget 350W



IT security

Feature set for high level of IT security



Fanless design

easy to maintain, no noise emission for use in the workstation area



Network redundancy

Feature set for meshed topologies







MICROSENS NMP integrated*

integrated in MICROSENS NMP software for clear administration and easy group configurations



19'' Fiber rack switches

Article No.	MS400990M	MS400991M	MS400995M	MS400996M
Picture				
Power	AC	AC	AC	AC
Redundant power supply	Yes	No	Yes	Yes
Total ports	28	28	28	28
RJ-45	8x 10/100/1000Base-T (shared with SFP slot)	-	-	-
SFP/SFP+/SFP28	24x 100/1000Base-X SFP 4x 1/10GBase-X SFP+	48x 100/1000Base-X SFP 4x 10GBase-X SFP+	20x 1/10GBase-X SFP+ 4x 10G/25G Base-X SFP28	48x 1000Base-X/10GBase-R SFP+
QSFP+/QSFP28	-	-	2x 40G Base-X QSFP+	8x 40/100G auto-sensing
L3 functionality	Yes	Yes	Yes	Yes
Switching Capacity	128 Gbps	364 Gbps	2.56T	4.8 T
Fan	Yes	Yes	Yes	Yes
Stacking	No	Yes	Yes	Yes



Layer3

Layer 3 feature set for broad application diversity



10G Uplinks (IEEE 802.3ae)

4 x 1/10G uplink ports as SFP/SFP+ version



Multi Fiber Switch

High port density of fiber ports for cost efficient high performance networks



IT-Security

Feature set for high level of IT security



Standardized network redundancy (ERPS according to G.8032)*

Feature set for special redundancy topologies (e.g. ring)



MICROSENS NMP integrated*

Integrated in MICROSENS NMP software for simple administration and easy group configurations





Layer3

Layer3 feature set for broad application diversity



10G uplinks (IEEE 802.3ae)

4 x 1/10G uplink ports in SFP/SFP+ design



Multi fiber switch

High port density of fiber ports for cost efficient high performance networks



IT security

Feature set for high level of IT security



Network redundancy

Feature set for meshed topologies



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Integrated in MICROSENS NMP software for clear administration and easy group configurations





Layer3

Layer 3 feature set for broad application diversity



40G Uplink

2x 40G uplink ports as QSFP+ version



Multi Gigabit Link

24x 10G fiber ports therefrom 20x 1/10G and 4x 10/25G



Standardized Network Redundancy (ERPS to G.8032)

Feature set for redundancy topologies (e.g. ring)



Multi Fiber Switch

High port density of fiber ports for cost efficient high performance networks



IT-Security

Feature set for high level of IT security



PROPERTIES

- 48x 10GBase-R ports
- 8x 40/100G QSFP+/QSFP28 auto-sensing
- CLI and SNMP management interface
- Extensive Layer 2 and Layer 3 features
- Redundant Internal power supply
- Intended for 19" mounting



MICROSENS

Network Components

Smart Building Solutions

Management Software

Network Management Platform (NMP)

Smart Building Manager

Enterprise Networks



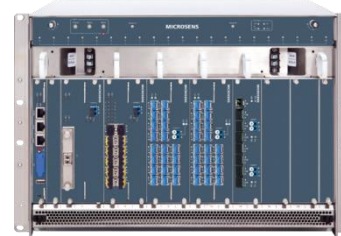
- Fiber to the Office (FTTO)
- Basic Fiber Optic Products (BFOP)

Industrial Solutions



- For harsh environments
- Industrial reliability

Optical Transport






- Wide area location interconnection
- Data center interconnection

Smart Lighting & Smart Automation



Industrial L3 Switches

Article No.	MS653410MX	MS653430MX	MS657308PMX
Picture			
Power	DC	DC	DC
Redundant power input	Yes	Yes	Yes
Total ports	28	28	12
RJ-45	24x 10/100/1000Base-T ports	24x 10/100/1000Base-T ports	8x 10/100/1000Base-T ports
SFP/SFP+	4x 1G/10GBase-X SFP+ ports	4x 1G/10GBase-X SFP+ ports	4x 1G/10GBase-X SFP+ ports
PoE	Yes (max. 30 W per port)	Yes (max. 30 W per port)	Yes (max. 30 W per port)
PoE budget	420W	420W	240W
L3 functionality	No	Yes	Yes
Fan	No	No	No
Operation Temperature	-40..+75 °C	-40..+75 °C	-40..+75 °C
Rack mount	Yes	Yes	No
Din Rail mount	No	No	Yes
MACSec	No	No	No
Exchangeable SD card	No	No	No
Additional IO contacts	No	No	No

Highlights

MS653410MX

- Industrial design for maximum reliability in harsh environments
- 4x 1G/10GBase-X SFP+ ports
- 24x 10/100/1000Base-T ports
- Product variant with Layer 3 support available
- PoE+ PSE (max. 30 W per port)
- 420 W total PoE+ (PSE) budget
- Flexible firmware compatible with industrial standard
- Redundant DC power inputs



Highlights

MS653430MX

- Industrial design for maximum reliability in harsh environments
- 4x 1G/10GBase-X SFP+ ports
- 24x 10/100/1000Base-T ports
- Product variant with Layer 3 support available
- PoE+ PSE (max. 30 W per port)
- 420 W total PoE+ (PSE) budget
- Flexible firmware compatible with industrial standard
- Redundant DC power inputs
- L3 functionality





Layer 3

Layer 3 feature set for broad application diversity



10G uplinks (IEEE 802.3ae)

4 x 1/10G uplink ports as SFP/SFP+ version



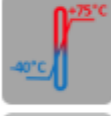
PoE+ PSE Local Ports (IEEE 802.3at)

PoE/PoE+ PSE Local Ports with up to 30W per port, total budget 240W



IT Security

Feature set for high level of IT security



Extended operating temperature range

Ambient temperature range -40°..+75°C



Fanless design

Easy to maintain hardware design, no noise emissions



Standardized network redundancy (ERPS according to G.8032)*

Feature set for special redundancy topologies (e.g. ring)




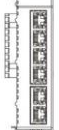




MICROSENS NMP integrated*

Integrated in MICROSENS NMP software for simple administration and easy group configurations



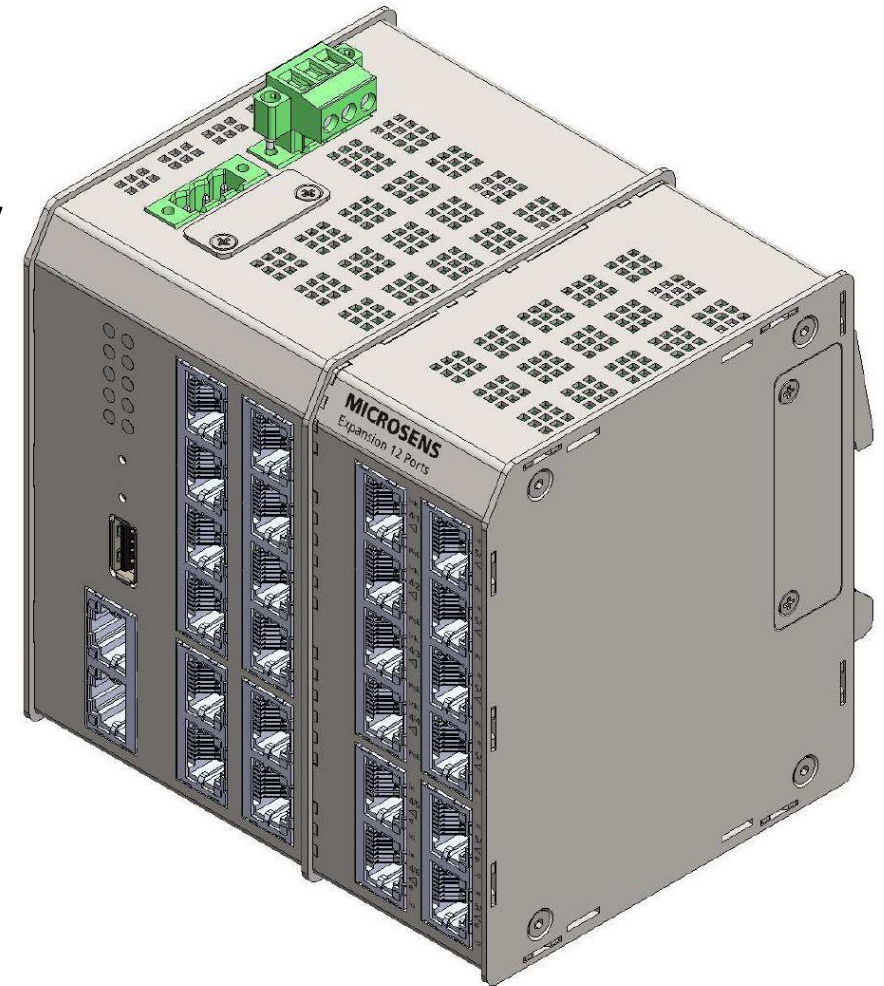
Profi Line Modular

Article No.	MS652119PM-V2	MS652129PM	MS652159PM	MS652219PM	MS652419PM	MS652419PM2
Type	Profi Line Modular Base Switch	Profi Line Modular Base Switch	Profi Line Modular Base Switch	Profi Line Modular Expansion Unit	Profi Line Modular Expansion Unit	Profi Line Modular Expansion Unit
Picture						
Power	DC	DC	DC	-	-	-
Redundant power input	Yes	Yes	No	-	-	-
Total ports	17	17	17	8	16	8
Total ports in use	13	13	13	6	12	8
Serial port	RJ-45 connector (RS-232)	RJ-45 connector (RS-232)	RJ-45 connector (RS-232)	-	-	-
USB port	Yes	Yes	Yes	-	-	-
RJ-45 (fixed)	1x 10/100/1000Base-T (PD, max. 25W) 8x 10/100/1000Base-T (PSE, max. 30W)	1x 10/100/1000Base-T (PD, max. 25W), 4x 10/100/1000Base-T (PSE, max. 60W), 4x 10/100/1000Base-T	1x 10/100/1000Base-T (PD, max. 25W), 8x 10/100/1000Base-T (PSE, max. 30W)	4x 10/100/1000Base-T (PSE, max. 30W)	8x 10/100/1000Base-T (PSE, max. 30W)	6x 10/100/1000Base-T
SFP/SFP+ (fixed)	-	-	-	-	-	2x 1G/10GBase-X
Dual media ports	4x 10/100/1000Base-T (RJ-45) or 4x 100/1000Base-X (SFP)	4x 10/100/1000Base-T (RJ-45) or 4x 100/1000Base-X (SFP)	4x 10/100/1000Base-T (RJ-45) or 4x 100/1000Base-X (SFP)	2x 10/100/1000Base-T (RJ-45) or 2x 100/1000Base-X (SFP)	4x 10/100/1000Base-T (RJ-45) or 4x 100/1000Base-X (SFP)	-
PoE	Yes (max. 30W per port)	Yes (max. 60 W per port)	Yes (max. 30 W per port)	Yes (max. 30 W per port)	Yes (max. 30 W per port)	No
PoE budget	240W	240W	480W	240W (MS652119PM-V2) or 360W (MS652159PM)	240W (MS652119PM-V2) or 480W (MS652159PM)	-
Fan	No	No	No	No	No	No
Operation Temperature	-40..+75 °C	-40..+75 °C	-40..+75 °C	-40..+75 °C	-40..+75 °C	-40..+75 °C
Rack mount	No	No	No	No	No	No
Din Rail mount	Yes	Yes	Yes	Yes	Yes	Yes
MACSec	No	No	No	No	No	Yes
Exchangeable SD card	Yes	Yes	Yes	-	-	-
Additional I/O contacts	Yes	Yes	Yes	-	-	-
Ready for Modular Expansion Unit	Yes	Yes	Yes	-	-	-

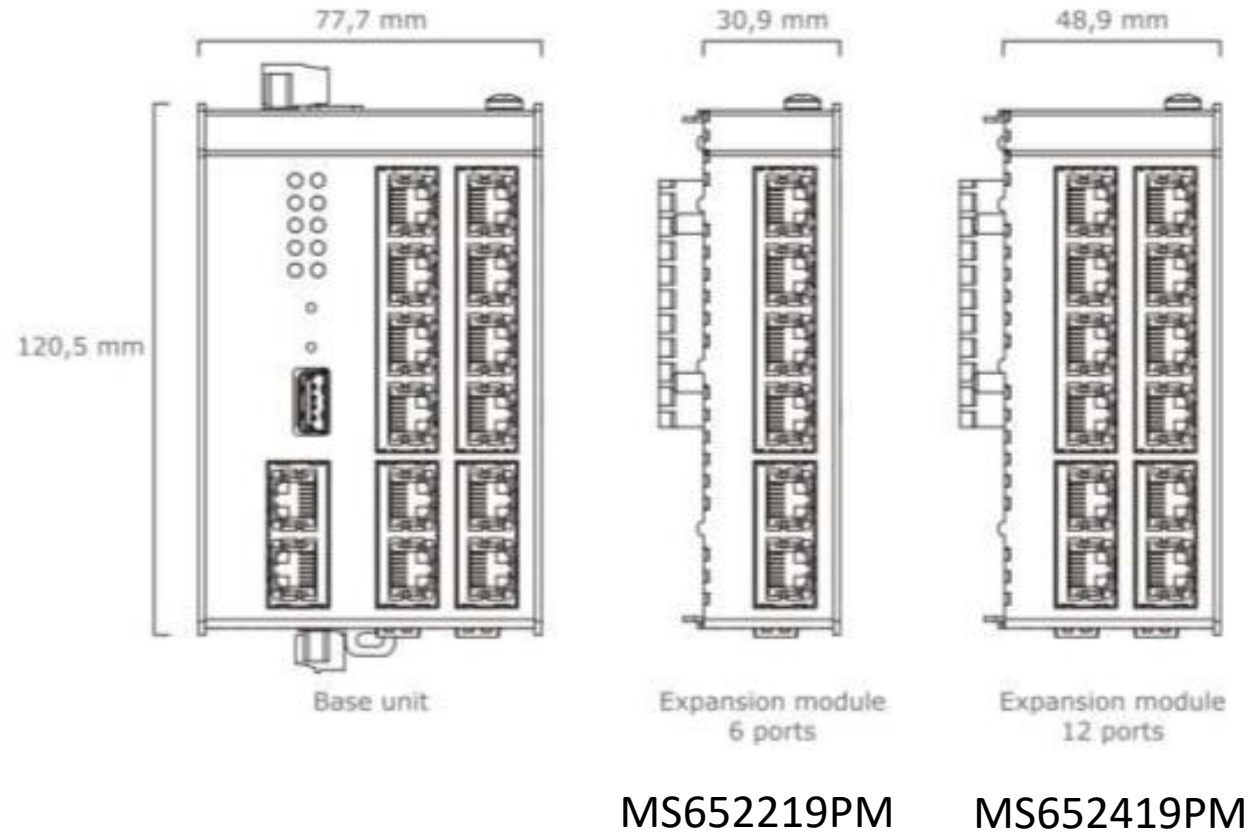
Highlights

Profi Line Modular - Base Unit

- Highest Gigabit performance with smallest dimensions
- Industrial design for maximum reliability in harsh environments
- expandable up to 25 ports (including 8 fiber ports)
- Optimized architecture for increased performance with ring topology
- PoE+ (max. 30W) integrated, (optional variant with max. 60W)
- Range of ambient operation temperature from -40 up to +75 °C
- Exchangeable SD-card for firmware and configuration included
- Flexible firmware architecture for simple software upgrades
- Redundant power inputs



Profi Line Modular - Expansion Modules





MACsec (IEEE 802.1AE)

GCM-AES encrypted 10G LAN communication



10G uplinks (IEEE 802.3ae)

2 x 1/10G uplink ports in SFP/SFP+ version



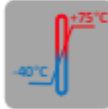
Network ring redundancy

Feature set for fail-safe redundancy topologies



IT security

Feature set for high level of IT security



Extended operating temperature range

Ambient temperature range -40°..+75°C



Industrial Fanless design

Easy to maintain, no noise emission for use in the workstation area







MICROSENS NMP integrated

Via NMP Base Module integrated with MICROSENS NMP software for clear administration and easy group configurations



Profi Line standalone units

Article No.	MS652615M	MS650919PM	MS400890MX-V2	MS400895MX
Type	Profi Line X	Profi Line+	Profi Line Rack	Profi Line Rack
Picture				
Power	DC	DC	DC	DC
Redundant power input	Yes	Yes	Yes	Yes
Total ports	9	9	33	33
Total ports in use	9	7	25	25
Serial port	RJ-45 connector (RS-232)	RJ-45 connector (RS-232)	RJ-45 connector (RS-232)	RJ-45 connector (RS-232)
USB port	Yes	Yes	Yes	Yes
RJ-45 (fixed)	1x 10/100/1000Base-T (PD, max. 25W), 6x 10/100/1000Base-T	1x 10/100/1000Base-T (PD, max. 25W), 4x 10/100/1000Base-T (PSE, max. 30W)	1x 10/100/1000Base-T (PD, max. 25W), 16x 10/100/1000Base-T (PSE, max. 30W)	1x 10/100/1000Base-T (PD, max. 25W), 16x 10/100/1000Base-T (PSE, max. 30W)
SFP/SFP+ (fixed)	2x 1G/10GBase-X	-	-	-
Dual media ports	-	2x 10/100/1000Base-T (RJ-45) or 2x 100/1000Base-X (SFP)	8x 10/100/1000Base-T (RJ-45) or 8x 100/1000Base-X (SFP)	8x 10/100/1000Base-T (RJ-45) or 8x 100/1000Base-X (SFP)
PoE	No	Yes (max. 30W per port)	Yes (max. 30W per port)	Yes (max. 30W per port)
PoE budget	-	120W	240W	480W
Fan	No	No	No	No
Operation Temperature	-40..+75 °C	-40..+75 °C	-40..+75 °C	-40..+75 °C
Rack mount	No	No	No	No
Din Rail mount	Yes	Yes	Yes	Yes
MACSec	Yes	No	No	No
Exchangeable SD card	Yes	Yes	Yes	Yes
Additional I/O contacts	Yes	Yes	Yes	Yes
Ready for Modular Expansion Unit	No	No	No	No



MACsec (IEEE 802.1AE)

GCM-AES encrypted 10G LAN communication



10G uplinks (IEEE 802.3ae)

2 x 1/10G uplink ports with SFP+



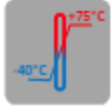
Network ring redundancy

Feature set for fail-safe redundancy topologies



IT security

Feature set for high level of IT security



Extended operating temperature range

Ambient temperature range -40°..+75°C



Industrial fanless design

Easy to maintain, no noise emission for use in the workstation area



MICROSENS NMP integrated*

Integrated with MICROSENS NMP software for clear administration and easy group configurations



Highlights

MS650919PM

- Highest Gigabit performance with smallest dimensions
- Industrial design for maximum reliability in harsh environments
- Compact design with full Gigabit performance
- PoE+ integrated
- Exchangeable SD-card for firmware and configuration included
- Flexible firmware architecture for simple software upgrades
- Redundant power inputs



Highlights

MS400890MX-V2 / MS400895MX

- Highest Gigabit performance with smallest dimensions and fan-less cooling
- Industrial design for maximum reliability in harsh environments
- 25 Gigabit (8 of them with fiber) ports on only 1U in 19" racks
- Optimised architecture for increased performance with parallel ring topology
- Integrated PoE+ PSE provides up to 16 x 30 W power to Ethernet network devices
- max. 480 W PSE Budget (MS400895MX)
- Range of ambient operation temperature from -40 up to +75 °C
- Exchangeable SD-card for firmware and configuration
- Flexible firmware architecture for simple software upgrades



Profi Line

Description	24VDC, non-PoE	48VDC, 8x PoE
Industrial Profi Line Switch		
10-Port GbE Industrial Profi Line Switch 1x 10/100/1000T bzw. 100/1000X (Combo), 2x 100/1000X, 7x 10/100TX, 2x VDC, DIN-Rail, managed, RC	MS650869M-V2	MS650869PM-48-V2
Industrial Profi Line Switch, extended temperature range		
10-Port GbE Industrial Profi Line Switch X 1x 10/100/1000T bzw. 100/1000X (Combo), 2x 100/1000X, 7x 10/100TX, 2x VDC, DIN-Rail, managed, RC, ext. temp. -40..+75°C	MS650869MX-V2	MS650869PMX-48-V2
Industrial Profi Line Switch, SD-Card version		
10-Port GbE Industrial Profi Line Switch PoE SD 1x 10/100/1000T PoE bzw. 100/1000X (Combo), 2x 100/1000X, 7x 10/100TX, 2x VDC, DIN-Rail, managed, RC, SD-Card slot	MS650869MSMC-V2	MS650869PMSMC-48-V2
Industrial Profi Line Switch, SD Card-Version extended temperature range		
10-Port GbE Industrial Profi Line Switch PoE SD 1x 10/100/1000T PoE bzw. 100/1000X (Combo), 2x 100/1000X, 7x 10/100TX, 2x VDC, DIN-Rail, managed, RC, SD-Card slot Ext. temp. -40..+75°C	MS650869MXSMC-V2	MS650869PMXSMC-48-V2
Industrial Profi Line Switch, fixed optics SC Multimode		
10-Port GbE Industrial Profi Line Switch 2x 1000SX SC/MM 850nm, 1x 10/100/1000T, 7x 10/100TX, 2x VDC, DIN-Rail, managed, RC	MS650851M	MS650851PM-48
Industrial Profi Line Switch, fixed optics SC Singlemode		
10-Port GbE Industrial Profi Line Switch 2x 1000LX SC/SM (10km) 1310nm, 1x 10/100/1000T, 7x 10/100TX, 2x VDC, DIN-Rail, managed, RC	MS650852M	MS650852PM-48

Version with special certifications

The B-version of the 10 Port GbE-switch is certified for applications in railway (EN50121) and substations (IEC61850).

Ethernetports for demanding environments

The Industrial Profi Line Ring Switch with Gigabit fiber optic ports is the compact, robust and flexible answer to the ever increasing requirement for Ethernet ports in demanding environments.

Robust

Modern, IP-based applications such as networks for large-area WiFi coverage or video surveillance systems become reliable, fail-safe and remotely manageable with this switch. The 10-port GbE ring switch meets the high demands on robustness, fail-safety and offers a wide range of functionalities.

Reliable

In addition to a star-shaped or daisy chained topology (typ. bus), the switch can also be integrated into a ring topology, which is able to switch over within milliseconds if a segment fails and keeps the communication upright.

The powerful software is optimized for a ring topology, it prevents an Ethernet loop. Two independently integrated power supplies allow redundant power supply in DC voltage which is typical in a DIN-rail system (depending on the version typ. 24VDC / 48VDC).

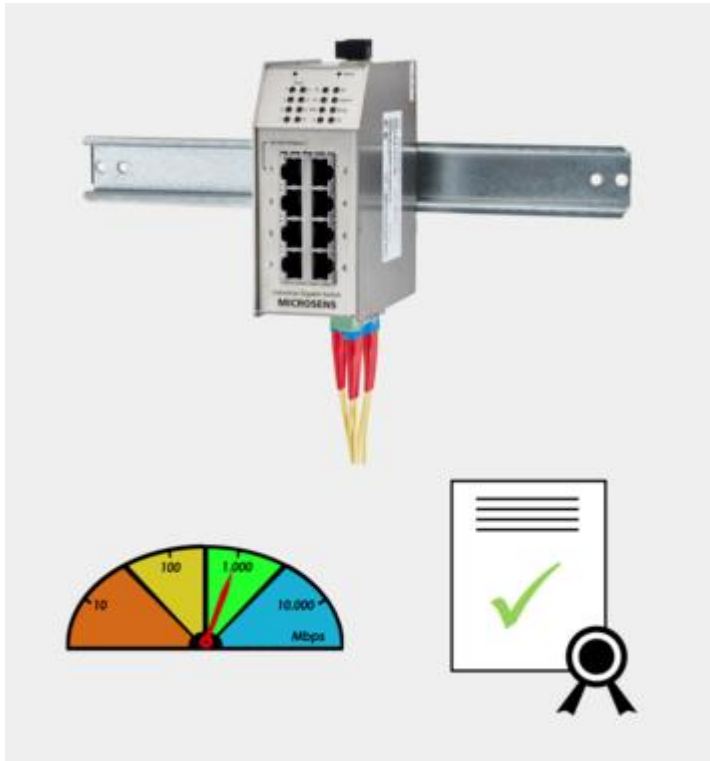
PoE

A dedicated version with PoE function (according to IEEE802.3af) offers the necessary equipment for a PoE end device in a power supply-less solution.



Certification

All Profi Line standalone Units are also available with special certification variants.



Version with special certifications

The B-version of the 10 Port GbE-switch is certified for applications in railway (EN50121) and substations (IEC61850).



Standards

CE	2014/30/EU (EMC Directive) 2011/65/EU (RoHS Directive)
Safety	EN 62368-1
Emitted interference	EN 61000-6-4 EN 55032 (Class A)
Electromagnetic Compatibility	EN 61000-6-2 EN 55024
Railway	EN 50121-4:2006
Power Substation	IEC 61850-3:2013 IEC 61000-6-5 Ed. 1.0:2015-08 IEEE 1613: 2009 (Class 1)