

MS4128 / PowerMICE Obsolescence and Product Migration



Layer 2

MS4128-L2P	943 009-102	----->	MSP30-24040SCY999HHE2A
MS4128-L2P ATEX	943 009-101	----->	MSP30-24040SCWY99HHE2A
MS4128-L2P EEC	943 009-103	----->	MSP30-24040TCWY99HHE2A

Layer 3

MS4128-L3E	943 009-202	----->	MSP30-24040SCY9URHHE3A
MS4128-L3E ATEX	943 009-201	----->	MSP30-24040SCWYURHHE3A
MS4128-L3E EEC	943 009-203	----->	MSP30-24040TCY9URHHE3A
MS4128-L3P	943 009-302	----->	MSP30-24040SCY9MRHHE3A
MS4128-L3P ATEX	943 009-301	----->	MSP30-24040SCWYMRHHE3A
MS4128-L3P EEC	943 009-303	----->	MSP30-24040TCY9MRHHE3A

Note:

- Above cross is to 7-slot MSP. Backplanes with fewer media module slots are available.
- MS20/30/4128 media modules are not compatible with the MSP's media modules
- The MSP Series has more configuration options, including number of media module slots, PoE and other approvals. Please use the configuration tool to ensure that the resulting cross/part meets the application.

MACH102 Fanless Fixed & Modular Rack Mount Switches



All MACH102 models have 2x Gig RJ45/SFP combo ports

- SFP sockets accept 100 and Gig SFPs
- RJ45 ports are 10/100/1000 Mbit/s

“R” in part number suffix adds dual/redundant power inputs



Dual AC input
Redundant on left, standard on right

Single AC input



MACH102 switches with -F are not modular.
Those with -R have redundant power inputs

Fixed Port Switches (-F and -FR)

MACH102-8TP-F 943 969-201

Fixed, not modular w/ continuous front plate,
8x 10/100 RJ45 + 2x Gig RJ45/SFP combo ports
(SFP socket supports 100 or Gig SFPs), **single** 100-240 VAC input

MACH102-8TP-FR 943 969-301

Fixed, not modular w/ continuous front plate,
8x 10/100 RJ45 + 2x Gig RJ45/SFP combo ports
(SFP socket supports 100 or Gig SFPs), **dual** 100-240 VAC input

MACH102-24TP-F 943 969-401

Fixed, not modular w/ continuous front plate,
24x 10/100 RJ45 + 2x Gig RJ45/SFP combo ports
(SFP socket supports 100 or Gig SFPs), **single** 100-240 VAC input

MACH102-24TP-FR 943 969-501

Fixed, not modular w/ continuous front plate,
8x 10/100 RJ45 + 2x Gig RJ45/SFP combo ports
(SFP socket supports 100 or Gig SFPs), **dual** 100-240 VAC input

Modular Port Switch Chassis

MACH102-8TP 943 969-001

Modular w/ 2x slots for media modules with cover plates included, 8x 10/100 RJ45 + 2x Gig RJ45/SFP combo ports (SFP socket supports 100 or Gig SFPs), **single** 100-240 VAC input

MACH102-8TP-R 943 969-101

Modular w/ 2x slots for media modules with cover plates included, 8x 10/100 RJ45 + 2x Gig RJ45/SFP combo ports (SFP socket supports 100 or Gig SFPs), **dual** 100-240 VAC input

Media Expansion Modules For modular (non-F) versions

M1-8TP-RJ45-PoE 942 028-001

8x PoE / PoE+

If PoE+ is used, only 4 Ports will be supported due to 120W limitation per expansion module.
Module requires separate external 48VDC power supply (46 - 57VDC), >50VDC for PoE+.



M1-8TP-RJ45 943 970-001

8x 10/100 BASE-TX



M1-8SFP 943 970-301

8x empty 100BASE-FX SFP sockets

Distance see SFP transceivers (M-FAST SFP-xx)



M1-8MM-SC 943 970-101

8x multimode 100BASE-FX, SC socket

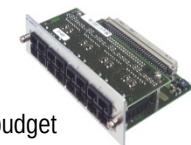
Distance MM (50/125µm): 0-5000m, 11 dB link budget
MM (62.5/125µm): 0-4000m, 8 dB link budget



M1-8SM-SC 943 970-201

8x singlemode 100BASE-FX, SC socket

Distance SM (9/125µm): 0-32.5km, 16 dB link budget



MACH104 All-Gig Rack Mount Switches – L2, L3 and PoE / PoE+

24x Gigabit (4 are Combo)

MACH104-20TX-F	942 003-001
MACH104-20TX-F-L3P	942 003-002
4x Gig RJ45/SFP combo ports (SFP socket supports 100 or Gig SFPs) + 20x GE RJ45, single 100-240 VAC input	
MACH104-20TX-FR	942 003-101
MACH104-20TX-FR-L3P	942 003-102
4x Gig RJ45/SFP combo ports (SFP socket supports 100 or Gig SFPs) + 20x GE RJ45, dual 100-240 VAC input	

20x Gigabit (4 are Combo) and 4x Gigabit PoE

MACH104-20TX-F-4PoE	942 003-201
MACH104-20TX-F-4PoE-L3P	942 003-202
4x Gig RJ45/SFP combo ports (SFP socket supports 100 or Gig SFPs) + 20x GE RJ45 (four of which are PoE, IEEE 802.3af). - PoE power supply integrated, single 100-240 VAC input	

16x PoE /PoE+

MACH104-16TX-PoEP	942 030-001
MACH 104-16TX-PoEP-L3P	942 030-002
4x Gig RJ45/SFP combo ports (SFP socket supports 100 or Gig SFPs) + 16x GE PoE/PoE+ RJ45. - PoE / PoE+ power supply integrated, single 100-240 VAC input (fan inside the power supply)	
MACH104-16TX-PoEP-R	942 026-001
MACH104-16TX-PoEP-R-L3P	942 026-002
4x Gig RJ45/SFP combo ports (SFP socket supports 100 or Gig SFPs) + 16x GE PoE/PoE+ RJ45. - PoE / PoE+ power supply integrated, dual load-sharing 100-240 VAC inputs (fan inside the power supply)	
MACH104-16TX-PoEP-E	942 027-001
MACH104-16TX-PoEP-E-L3P	942 027-002
4x Gig RJ45/SFP combo ports (SFP socket supports 100 or Gig SFPs) + 16x GE PoE/PoE+ RJ45. - Fanless, but requires external 48VDC (44-57VDC) for PoE or 54VDC (52-57VDC) if using any PoE+	

16x PoE /PoE+ and 2x 10 Gig

MACH104-16TX-PoEP+2X	942 031-001
MACH104-16TX-PoEP+2X-L3P	942 031-002
2x 10Gig XFP + 4x Gig RJ45/SFP combo ports (SFP socket supports 100 or Gig SFPs) + 16x GE PoE/PoE+ RJ45. - PoE / PoE+ power supply integrated, single 100-240 VAC input (fan inside the power supply)	
MACH104-16TX-PoEP+2X-R	942 033-001
MACH104-16TX-PoEP+2X-R-L3P	942 033-002
2x 10Gig XFP + 4x Gig RJ45/SFP combo ports (SFP socket supports 100 or Gig SFPs) + 16x GE PoE/PoE+ RJ45. - PoE / PoE+ power supply integrated, dual load-sharing 100-240 VAC inputs (fan inside the power supply)	
MACH104-16TX-PoEP+2X-E	942 032-001
MACH104-16TX-PoEP+2X-E-L3P	942 032-002
2x 10Gig XFP + 4x Gig RJ45/SFP combo ports (SFP socket supports 100 or Gig SFPs) + 16x GE PoE/PoE+ RJ45. - Fanless, but requires external 48VDC (44-57VDC) for PoE or 54VDC (52-57VDC) if using any PoE+	



NOTE: MACH104-16TX-PoEP.... Maximum number of Powered Devices (PDs)

- PoE / IEEE 802.3af – 16 × PD class 0 (15.4 W)
- PoE+ / IEEE 802.3at – 8 × PD class 4 (30 W)
- Mixed PoE / PoE+ - Maximum of 240W
- For even heat dissipation, it is recommend to distribute the PoE power equally between the two port groups (ports 5 to 12 and ports 13 to 20).



MACH104-16TX-PoEP+2X....



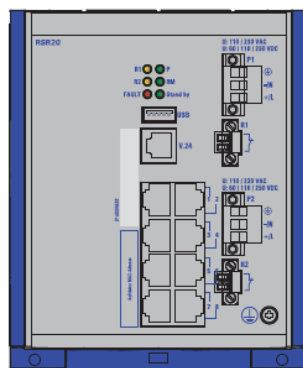
MACH104-16TX-PoEP....



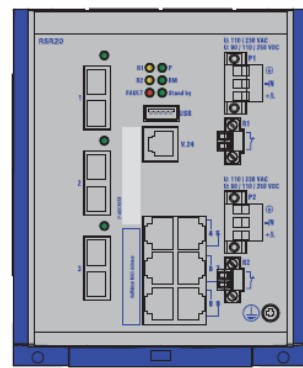
HIRSCHMANN

A BELDEN BRAND

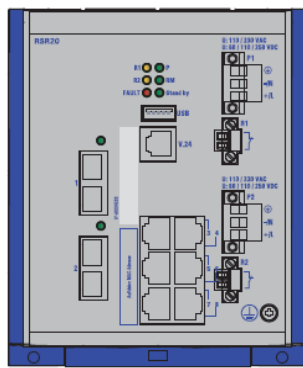
RSR Über-Rugged™ DIN Rail Mount Switches



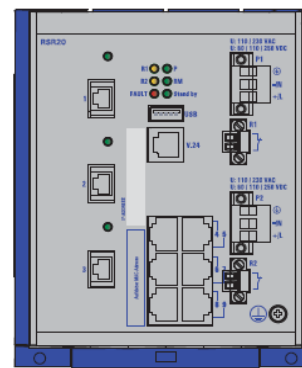
RSR20 08 00 T1T1T1
8x 10/100BASE-TX(RJ45)



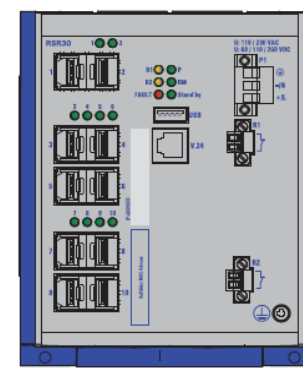
RSR20 09 00 MMM2T1
3x 100BASE-FX(SC)
6x 10/100BASE-TX(RJ45)



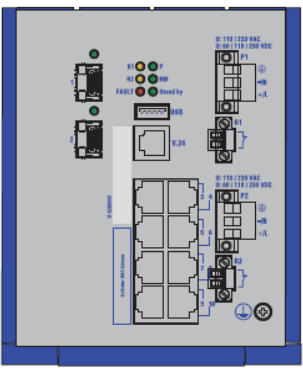
RSR20 08 00 M2M2T1
2x 100BASE-FX(SC)
6x 10/100BASE-TX(RJ45)



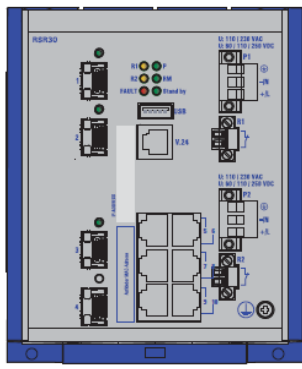
RSR20 09 00 JJM3T1
3x 100BASE-FX(MTRJ)
6x 10/100BASE-TX(RJ45)



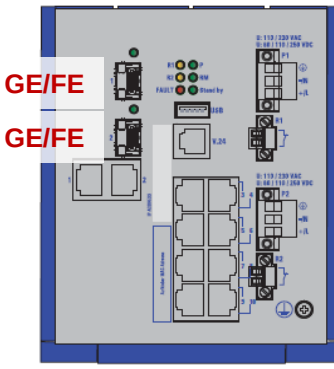
RSR30 07 03 00 06 Z6
3x SFP slot (GE)
7x SFP slot (FE)



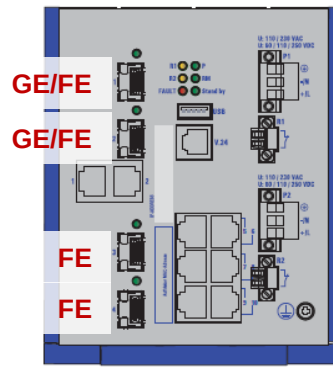
RSR30 08 02 06 06 T1
2x SFP slot (GE)
8x 10/100BASE-TX(RJ45)



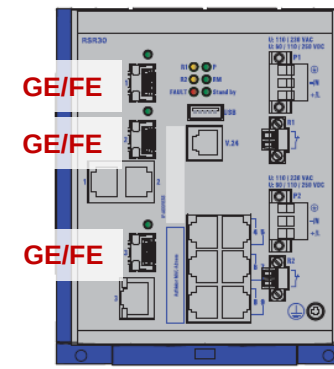
RSR30 08 02 00ZZT1
2x SFP slot (GE)
2x SFP slot (FE)
6x 10/100BASE-TX(RJ45)



RSR30 08 02 0707T1
2x GE/FE RJ45/SFP Combo port
8x 10/100BASE-TX(RJ45)



RSR30 08 02 CCZZT1
2x GE/FE RJ45/SFP Combo port
2x SFP slot (FE)
6x 10/100BASE-TX(RJ45)



RSR30 06 03 CC07T1
3x GE/FE RJ45/SFP Combo port
6x 10/100BASE-TX(RJ45)

 **Note:** All combo ports support GE and FE SFPs

RSR Configuration

RSR20	-								H	P	H	H	XX.X
1. Product		3. 10/100 Mbit/s ports	4. 10/100/1000 Mbit/s ports	5. Uplink port 1 configuration	6. Uplink port 2 configuration	7. Temperature range	8. Voltage range 1	9. Voltage range 2	10. Approvals	11. Software version	12. Configuration	13. OEM type	14. SW release

1. Design

RSR20

All ports 100 Mbit/s max

RSR30

Up to 3x Gig uplink ports

3. FE Ports

06

6x 100 Mbit/s (RSR30)

07

7x 100 Mbit/s (RSR30)

08

8x 100 Mbit/s (RSR20,RSR30)

09

9x 100 Mbit/s (RSR20)

4. GE Ports

00

0x 1000 Mbit/s (RSR20)

02

2x 1000 Mbit/s (RSR30)

03

3x 1000 Mbit/s (RSR30)

5. Ports Type - 1. Uplink

CC

2x Combo Port Gigabit

00

2x SFP Slot Gigabit

TT

2x Twisted Pair (RJ45)

MM

2x Multimode (D-SC)

JJ

2x Multimode (MTRJ)

NN

2x Multimode (BFOC/ST)

VV

2x Singlemode (D-SC)

UU

2x Singlemode (BFOC/ST)

LL

2x Singlemode Long Haul (D-SC)

GG

2x Singlemode Long Haul+ (D-SC)

ZZ

2x SFP Slot (100 Mbit/s)

07

Combo port (1000 Mbit/s)

06

SFP slot (1000 Mbit/s)

T1

Twisted Pair (RJ45)

M2

Multimode (D-SC)

M3

Multimode (MTRJ)

M4

Multimode (BFOC/ST)

S2

Singlemode (D-SC)

S4

Singlemode (BFOC/ST)

L2

Singlemode Long Haul (D-SC)

G2

Singlemode Long Haul+ (D-SC)

Z6

SFP slot (100 Mbit)

Not all options are possible in all RSR types

6. Ports Type - 2. Uplink

ZZ | 07 | 06 | T1 | M2 | M3 | M4 | S2 | S4 | L2 | G2 | Z6



Configurator

7. Temp Rating

S

Standard (0-60 deg C)

U

Extended (-40 to +85 deg C)

F

Extended (U-rating and conformal coating)

8. Voltage 1

C

24/36/48 V DC

K

60/120/250 V DC
110/230 V AC

9. Voltage 2

9

Empty / Not Added

C

24/36/48 V DC

K

60/120/250 V DC
110/230 V AC

10. Approvals

H

UL508;GL, IEC 61850-3,
IEEE1613, EN50121-4

11. OS Type

P

Professional

12. Configuration

H

Hirschmann

13. OEM type

H

Hirschmann

14. OS release

XX.X

Newest software



MACH1000 Über-Rugged™ Rack-Mount Switches



MAR1020-99 TT ...

Max. 24 ports 10/100 Mbit/s



MAR1030-CC TT ...

Max. 24 ports 10/100 Mbit/s
+ 2 ports FE/GE (Combo SFP/RJ45)



MAR1030-4O TT ...

Max. 24 ports 10/100 Mbit/s
+ 4 ports GE (SFP); 1000 Mbit/s



MAR1030-OT TT ...

Max. 24 ports 10/100 Mbit/s
+ 2 ports GE (SFP) + 2 ports 10/100/1000 Mbit/s (RJ45)



MAR1030-4T TT ...

Max. 24 ports 10/100 Mbit/s
+ 4 ports 10/100/1000 Mbit/s (RJ45)



MAR1022-99 TT ...

Max. 24 ports 10/100 Mbit/s
incl. 4 ports PoE (RJ45)



MAR1032-CC TT ...

Max. 24 ports 10/100 Mbit/s
incl. 4 ports PoE + 2 ports FE/GE (Combo SFP/RJ45)



MAR1120-99 TT ...

Rear: Max. 20 ports 10/100 Mbit/s
Front: 1 „service“ port (10/100Base-TX; RJ45)



MAR1130-4T TT ...

Rear: Max. 20 ports 10/100 Mbit/s
+ 2/4 ports GE (div. variation)
Front: 1 „service“ port in the front (10/100Base-TX; RJ45)

MACH1000 (1020 / 1030) Configuration

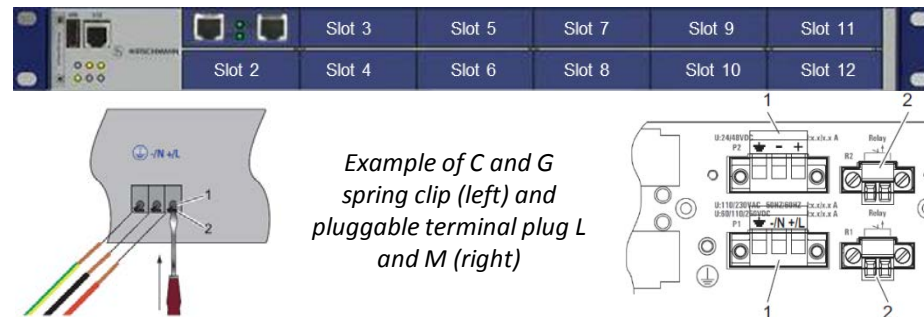
1. Chassis Type 2. GE Ports 3. - 14. Media ports 15. Temp. range 16. Voltage 1 17. Voltage 2 18. Approvals 19. OS Type 20. Config 13. OEM type 14. OS Ver.

1. Chassis type	MAR1020	Fast Ethernet
	MAR1030	Gigabit Ethernet
	MAR1022	Fast Ethernet with PoE
	MAR1032	Gigabit Ethernet with PoE
	MAR1120	Fast Ethernet - Ports rear
	MAR1130	Gigabit Ethernet - Ports rear
	MAR1122	Fast Ethernet with PoE - Ports front
	MAR1132	Gigabit Ethernet with PoE - Ports front

2. GE ports  Only MACH103x	<table> <tr> <td>CC</td><td>2x FE/GE SFP/RJ45 Combo ports</td></tr> <tr> <td>4O</td><td>4x GE SFP; 1000 Mbit/s</td></tr> <tr> <td>4T</td><td>4x 10/100/1000 Mbit/s; RJ45</td></tr> <tr> <td>OT</td><td>2x GE SFP and 2x 10/100/1000 Mbit/s; RJ45</td></tr> <tr> <td>99</td><td>No Gigabit/empty (only possible in MAR102x)</td></tr> </table>	CC	2x FE/GE SFP/RJ45 Combo ports	4O	4x GE SFP; 1000 Mbit/s	4T	4x 10/100/1000 Mbit/s; RJ45	OT	2x GE SFP and 2x 10/100/1000 Mbit/s; RJ45	99	No Gigabit/empty (only possible in MAR102x)
CC	2x FE/GE SFP/RJ45 Combo ports										
4O	4x GE SFP; 1000 Mbit/s										
4T	4x 10/100/1000 Mbit/s; RJ45										
OT	2x GE SFP and 2x 10/100/1000 Mbit/s; RJ45										
99	No Gigabit/empty (only possible in MAR102x)										

3. – 14. FE ports 12 slots. Each slot has two ports of same type. Any mix permitted. Empty ports have to be located at the end of the port sequence.	TT	2x Twisted Pair, 10/100 Mbit/s; RJ45
	MM	2x Multimode , 100 Mbit/s; SC
	JJ	2x Multimode , 100 Mbit/s; MTRJ
	NN	2x Multimode , 100 Mbit/s; ST
	BB	2x Multimode , 100 Mbit/s; LC
	VV	2x Singlemode , 100 Mbit/s; SC
	UU	2x Singlemode , 100 Mbit/s; ST
	LL	2x Singlemode LH , 100 Mbit/s; SC
	GG	2x Singlemode LH+ , 100 Mbit/s; SC
	ZZ	2x SFP slot , 100 Mbit/s; SFP
	FF	2x Multimode , 10 Mbit/s; ST
	RR	2x Twisted Pair , 100 Mbit/s; M12
	PP	Not populated / Empty

15. Temp. range		Standard	0°C ... +60°C
		Extended	-40°C ... +85°C
		Extended including Corformal Coating	-40°C ... +85°C



16. Voltage 1	C	24/36/48 VDC – spring clip
	G	110/250 VDC and 110/230 VAC – spring clip
	L	24/36/48 VDC - power plug
	M	110/250 VDC and 110/230 VAC – pwr plug

17. Operating voltage 2		Same selection as above. Connector type must match, voltage can be different.
		Not populated / Empty

18. Approvals	H T	UL508; UL1604 Class 1 Div2; GL, IEC 61850-3, IEEE1613, EN50121-4; NEMA TS EN50155
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19. OS Type	P	Professional
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20. Configuration Hirschmann

21. OEM type	H	Hirschmann
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22. OS Version **xx.x** Newest software

MACH4000 Backbone Switch

10 Gigabit Ethernet

Max: 48x GE + 3x 10 GE

MACH 4002 – 48G+3X-L2P	943 878-101
MACH 4002 – 48G+3X-L3E	943 878-201
MACH 4002 – 48G+3X-L3P	943 878-301



Base chassis: 3 XFP sockets + 16 TP-ports

Max: 24x GE + 3x 10 GE

MACH 4002 – 24G+3X-L2P	943 915-101
MACH 4002 – 24G+3X-L3E	943 915-201
MACH 4002 – 24G+3X-L3P	943 915-301



Base chassis: 3 XFP sockets + 8 TP-ports

Gigabit Ethernet

Maximum ports: 48x GE

MACH 4002 – 48G-L2P	943 911-101
MACH 4002 – 48G-L3E	943 911-201
MACH 4002 – 48G-L3P	943 911-301



Base chassis: 8 combo- + 8 TP-ports

Max: 24x GE

MACH 4002 – 24G-L2P	943 916-101
MACH 4002 – 24G-L3E	943 916-201
MACH 4002 – 24G-L3P	943 916-301

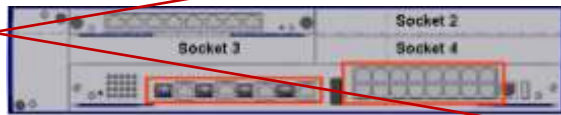


Base chassis: 8 combo ports

Fast Ethernet

Max: 48 FE + 4x GE

MACH 4002 – 48+4G-L2P	943 859-101
MACH 4002 – 48+4G-L3E	943 859-201
MACH 4002 – 48+4G-L3P	943 859-301



Base chassis: 4 combo- + 16x 10/100 ports



EOL
Refer customers to MACH 4002-48G

Plug-in power supply for MACH4002-chassis

M4-S-AC/DC 300W 943 870-001
operating voltage: 100-240V AC / 120-350V DC

M4-S-24VDC 300W 943 871-001
operating voltage: 19-32V DC, max 15A

M4-S-48VDC 300W 943 872-001
operating voltage: 38-72V DC, max 8A



Optional external power

M4-POWER Chassis 943 874-001
19" rack-mount chassis



M4-P-AC/DC 300W 943 875-001
Operating voltage: 100-240V AC, 129-350V DC



M4-P-24VDC 300W 943 876-001
Operating voltage: 24V DC (19V – 32V)

M4-P-48VDC 300W 943 877-001
Operating voltage: 48V DC (38V – 72V)



MACH4000 Media Modules



M4-8TP-RJ45 943 863-001

- 8x 10/100/1000MBit/s RJ45 sockets
- AutoNeg, AutoCrossing, Cable Diagnostic
- 10/100MBit/s with MACH 4002 - 48+4G



M4-FAST 8TP-RJ45-PoE 943 873-001

- 8x 10/100MBit/s RJ45 sockets
- PoE is provided over pairs 1-2, 3-6



M4-FAST 8-SFP 943 864-001

- 8x FE SFP sockets



M4-GIGA 8-SFP 943 879-001

- 8x GE/FE SFP sockets
- Not for use in the MACH 4002-48+4G

MACH 4000 basic device	Maximum port number				Number of installed ports (basic board)				Maximum number of media modules		Max. PoE power
	TP ports 10/100 Mbit/s	TP ports 10/100 1000 Mbit/s	Combo ports TP/SFP 10/100 1000 Mbit/s	XFP slots 10 Gbit/s	TP ports 10/100 Mbit/s	TP ports 10/100 1000 Mbit/s	Combo ports TP/SFP 10/100 1000 Mbit/s	XFP slots 10 Gbit/s	10/100 Mbit/s	10/100 1000 Mbit/s	
MACH 4002-48+4G	48	4	4	-	16	-	4 ¹⁾	-	4 ³⁾	-	137 W
MACH 4002-24G	-	24	8	-	-	-	8 ²⁾	-	-	2	163 W
MACH 4002-48G	-	48	8	-	-	8	8 ²⁾	-	-	4	110 W
MACH 4002-24G+3X	-	24	-	3	-	8	-	3	-	2	157 W
MACH 4002-48G+3X	-	48	-	3	-	16	-	3	-	4	106 W

1) SFP 1000 Mbit/s
 2) SFP 100/1000 Mbit/s
 3) M4-8TP RJ45, M4-8TP RJ45-PoE or M4-FAST 8-SFP

OpenOCTOPUS OS20 / OS30

OCTOPUS 16M (943 912-001)
managed ruggedized IP67-Switch 16 TX,
Approvals: E1, DIN 5510-2, NF F 16-101, NF F 16-102, GL

OCTOPUS 16M Train (943 984-001)
managed ruggedized IP67-Switch 16 TX,
Approvals: EN 50155, EN 50121-4, DIN 5510-2, NF F 16-101, NF F 16-102

OCTOPUS 16M 8PoE (943 960-001)
managed ruggedized IP67-Switch 16 TX,
including 8 ports PoE
Approvals: EN50155

OCTOPUS 24M (943 923-001)
managed ruggedized IP67-Switch 24 TX,
Approvals: E1, DIN 5510-2, NF F 16-101, NF F 16-102, GL

OCTOPUS 24M Train (943 985-001)
managed ruggedized IP67-Switch 24 TX,
Approvals: EN 50155, EN 50121-4, DIN 5510-2, NF F 16-101, NF F 16-102

OCTOPUS 24M Train-BP (943 093-001)
managed ruggedized IP67-Switch 24 TX,
including 2 Bypass Relais
EN 50155, EN 50121-4, DIN 5510-2, NF F 16-101, NF F 16-102

OCTOPUS 24M-8PoE (943 063-001)
managed ruggedized IP67-Switch 24 TX,
including 8 ports PoE
Approvals: E1, EN 50155, EN 50121-4, DIN 5510-2, NF F 16-101, NF F 16-102



OCTOPUS 8M (943 931-001)
managed ruggedized IP67-Switch 8 TX,
Approvals: E1, DIN 5510-2, NF F 16-101, NF F 16-102, GL

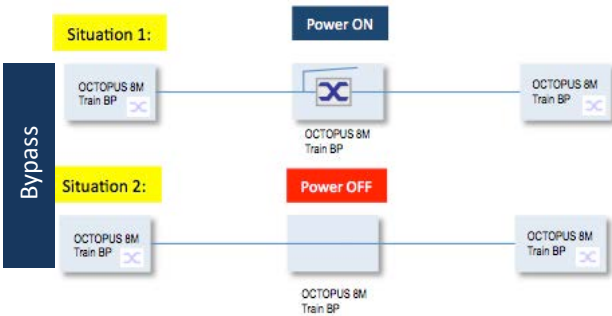
OCTOPUS 8M Train (943 983-001)
managed ruggedized IP67-Switch 8 TX,
Approvals: EN 50155, EN 50121-4, DIN 5510-2, NF F 16-101, NF F 16-102

OCTOPUS 8M –Train-BP (943 091-001)
managed ruggedized IP67-Switch 8 TX,
including 2 Bypass Relais
Approvals: EN 50155, EN 50121-4, DIN 5510-2, NF F 16-101, NF F 16-102

OCTOPUS 8M - 6PoE (943 967-101)
managed ruggedized IP67-Switch 8 TX,
including 6 ports PoE
Approvals: EN50155

OCTOPUS 8M -8PoE (943 967-001)
managed ruggedized IP67-Switch 8 TX,
including 8 ports PoE
Approvals: EN50155

Product Code	Product Name		Power supply	Ports	FE
943892001	OCTOPUS 5TX EEC	Unmanaged	9,6V - 32V	5-port	5 Cu
943931001	OCTOPUS 8M	Managed	9,6V - 60V	8-port	8 Cu
943983001	OCTOPUS 8M Train	Managed	9,6V - 60V	8-port	8 Cu
943967101	OCTOPUS 8M-6PoE	Managed	48V	8-port	8 Cu
943967001	OCTOPUS 8M-8PoE	Managed	48V	8-port	8 Cu
942091001	OCTOPUS 8M-Train-BP	Managed	9,6V - 60V	8-port	8 Cu
943912001	OCTOPUS 16M	Managed	9,6V - 60V	16-port	16 Cu
943994001	OCTOPUS 16M Train	Managed	9,6V - 60V	16-port	16 Cu
943960001	OCTOPUS 16M-8PoE	Managed	48V	16-port	16 Cu
942092001	OCTOPUS 16M-Train-BP	Managed	9,6V - 60V	16-port	16 Cu
943923001	OCTOPUS 24M	Managed	9,6V - 60V	24-port	24 Cu
943965001	OCTOPUS 24M Train	Managed	9,6V - 60V	24-port	24 Cu
942063001	OCTOPUS 24M-8PoE	Managed	48V	24-port	24 Cu
942093001	OCTOPUS 24M-Train-BP	Managed	9,6V - 60V	24-port	24 Cu



OpenOCTOPUS OS20 / OS30



OCTOPUS OS24-080900T5T5TFFB (942 025-007)
**managed ruggedized IP67-Switch 9 TX,
including 8 ports PoE**
Approvals: E1, EN 50155, EN 50121-4, DIN 5510-2, NF F 16-101, NF F 16-102

OCTOPUS OS24-080900T5T5TNEB (942 025-008)
**managed ruggedized IP67-Switch 9 TX,
including 8 ports PoE**
Approvals: EN 50155, EN 50121-4, DIN 5510-2, NF F 16-101, NF F 16-102

OCTOPUS OS24-081000T5T5TFFU (942 025-003)
**unmanaged ruggedized IP54-Switch 10 TX,
including 8 ports PoE**
Approvals: E1, EN 50155, EN 50121-4, DIN 5510-2, NF F 16-101, NF F 16-102

OCTOPUS OS24-081000T5T5TFNEU (942 025-004)
**unmanaged ruggedized IP54-Switch 10 TX,
including 8 ports PoE**
Approvals: EN 50155, EN 50121-4, DIN 5510-2, NF F 16-101, NF F 16-102



OCTOPUS OS20-0010001M1MTREP (943 988-001)
managed ruggedized IP67-Switch 8 TX, 2 FX-MM,
Approvals: E1, EN50155

OCTOPUS OS20-0010001S1STREP (943 988-002)
managed ruggedized IP67-Switch 8 TX, 2 FX-SM,
Approvals: E1, EN50155

OCTOPUS OS20-0010004M4MTREP (943 988-003)
managed ruggedized IP67-Switch 8 TX, 2 FX-SM,
Approvals: E1, EN50155

OCTOPUS OS20-0010004S4STREP (943 988-004)
managed ruggedized IP67-Switch 8 TX, 2 FX-SM,
Approvals: E1, EN50155



Accessory

OCTOPUS Dust cap (942 057-001; 25 pieces)

Variant 1 and 4 IEC 61076-3-106 connectors are not sold by Belden and need to be sourced via third party, such as Metz Connect. See parts and link below.

Var 1 plug/shell (EtherNet/IP) 1401015000ME
Var 4 plug/shell (Profinet) 14010850F0ME
Duplex LC insert (multimode) 1402800820-I
Duplex LC insert (singlemode) 1402900820-I

<http://www.metz-connect.com/us/productsearch/E-DAT%20Industry%20IP67%20V1>

EtherNet/IP
Variant 1



Profinet
Variant 4



02	2 * 1000 Mbit/s Ethernet
1M	M-FAST SFP-MM / LC / EEC / variant 1
1S	M-FAST SFP-SM / LC / EEC / variant 1
1P	M-FAST SFP-SM+ / LC / EEC / variant 1
1L	M-FAST SFP-LH / LC / EEC / variant 1
1A	M-SFP-SX / LC / EEC / variant 1
1B	M-SFP-LX / LC / EEC / variant 1
1C	M-SFP-LH / LC / EEC / variant 1
1D	M-SFP-LH+ / LC / EEC / variant 1
4M	M-FAST SFP-MM / LC / EEC / variant 4
4S	M-FAST SFP-SM / LC / EEC / variant 4
4P	M-FAST SFP-SM+ / LC / EEC / variant 4
4L	M-FAST SFP-LH / LC / EEC / variant 4
4A	M-SFP-SX / LC / EEC / variant 4
4B	M-SFP-LX / LC / EEC / variant 4
4C	M-SFP-LH / LC / EEC / variant 4
4D	M-SFP-LH+ / LC / EEC / variant 4

Optical ports variant 1



EtherNet/IP

IEC 61076-3-106 variant 1	Multimode fibre	Singlemode fibre
	Fast Ethernet FO link up to 4 km 943 988-001	Fast Ethernet FO link up to 22 km 943 988-002
	Gigabit Ethernet FO link up to 550m 943 988-005	Gigabit Ethernet FO link up to 17 km 943 988-006

Optical ports variant 4



Profinet

IEC 61076-3-106 variante 4	Multimode fibre	Singlemode fibre
	Fast Ethernet FO link up to 4 km 943 988-003	Fast Ethernet FO link up to 22 km 943 988-004
	Gigabit Ethernet FO link up to 550m 943 988-007	Gigabit Ethernet FO link up to 17 km 943 988-008



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OpenOCTOPUS OS20 / OS30



OCTOPUS OS20-000900T5T5TAFB (942 025-005)
managed ruggedized IP67-Switch 9 TX,
Approvals: E1, EN 50155, EN 50121-4, DIN 5510-2, NF F 16-101, NF F 16-102



OCTOPUS OS20-001000T5T5TAFU (942 025-001)
unmanaged ruggedized IP54-Switch 10 TX
Approvals: EN 50155, EN 50121-4, DIN 5510-2,
NF F 16-101, NF F 16-102

OCTOPUS OS30-0008021A1ATREP (943 988-005)
managed ruggedized IP67-Switch 8 TX, 2FX-MM (Gigabit)
Approvals: E1, EN50155

OCTOPUS OS30-0008021B1BTREP (943 988-006)
managed ruggedized IP67-Switch 8 TX, 2FX-SM (Gigabit)
Approvals: E1, EN50155

OCTOPUS OS30-0008024A4ATREP (943 988-007)
managed ruggedized IP67-Switch 8 TX, 2FX-MM (Gigabit)
Approvals: E1, EN50155

OCTOPUS OS30-0008024B4BTREP (943 988-008)
managed ruggedized IP67-Switch 8 TX, 2FX-SM (Gigabit)
Approvals: E1, EN50155



OCTOPUS OS32-080802T6T6TPEP (942 069-002)
managed ruggedized IP65, IP67-Switch 10 TX,
including 8 ports PoE (10/100 Mbit/s), M12 „D“ coding,
2x 1000 Mbit/s M12 „X“-coding
Approvals: CE, C-Tick, GOST-R, EN 50155



OCTOPUS OS32-081602T6T6TPEP (942 069-001)
managed ruggedized IP65, IP67-Switch 18 TX,
including 8 ports PoE (10/100 Mbit/s), M12 „D“ coding
8 ports 10/100 Mbit/s, M12 „D“ coding
2x 1000 Mbit/s, M12 „X“-coding
Approvals: CE, C-Tick, GOST-R, EN 50155



OCTOPUS OS32-0808020606TPEP (942 069-004)
managed ruggedized IP65, IP67-Switch 10 Ports
including 8 ports PoE, M12 „D“ coding,
2 ports 1000BASE-SFP sockets
Approvals: CE, C-Tick, GOST-R, EN 50155



OCTOPUS OS32-0816020606TPEP (942 069-003)
managed ruggedized IP54-Switch 18 Ports
including 8 ports PoE, M12 „D“ coding,
8 ports 10/100 Mbit/s, M12 „D“ coding
2 ports 1000BASE-SFP sockets
Approvals: CE, C-Tick, GOST-R, EN 50155

