

Datasheet

MSP 1000

Chassis types / Power supply



Made

in

Germany

General

The ability to interconnect is one of the key factors for increased productivity and cost efficiency, especially in times of continuously growing data volumes.

With the scalable MSP 1000 xWDM system platform from MICROSENS, telecommunications providers, ISPs, operators of data centres and companies with large network extensions receive a future-proof basis for their constantly growing bandwidth requirements. Fail-safety and redundancy are just as important here as long-term financial feasibility within IT cost planning.

The MICROSENS Optical Transport Platform MSP1000 enables an expansion of the capacities of fiber optic links to meet the actual requirements due to its modular design.

Various chassis versions are available for setting up a MICROSENS xWDM system, which differ in the following parameters:

- Number of active module slots
- Space requirement in 19" rack (1U / 4U)
- always redundant power supply (2x 115/230 VAC, 2x 48 VDC, mixed voltage), both power supplies individually rated to maximum capacity.

Independent of the chosen chassis version, MICROSENS places the highest value on quality in the selection of components as well as in the manufacturing process in order to offer maximum reliability. Optimum air circulation from front to rear ensures systematic dissipation of heat and protects the entire system.

The user modules are dimensioned in Eurocard size and can be exchanged from the front during operation (hot swap).

Technical Details

Type	Modular Chassissystem MSP1000 for 19" Mounting		
Dimensions 19"	<i>MS42550xM</i>	4U 482 x 175 x 315 mm (W x H x D)	
	<i>MS42504M-48-V2</i>	1U 482 x 44 x 285 mm (W x H x D)	
	<i>MS425505M</i>	1U 482 x 44 x 285 mm (W x H x D)	
Power Supply MS42550xM (4U-Chassis)	<i>Input AC</i>	.	115~230 VAC, 50/60Hz, Fuse: 250 V / 4 A, time-lag
	<i>Input DC</i>		48 VDC (36~75 VDC) Fuse: H8 AT, time-lag
	<i>Output</i>		5 V / max. 250 W (per Modul) 12 V / 50 W (Fan)
Power supply MS425504M-48-V2 (1U-Chassis)	<i>Input AC</i>		ext. Power Supply, 115~230 VAC, 65W
	<i>Output DC</i>		2x 48 VDC integrated, max 60 W
Ventilation direction	„front-to-back“ (horizontal)		
Operating temp.	0..+40 °C		
Storage temp.	-40..+85 °C		
Humidity	5% up to 80 % non-condensing		
Weight	<i>MS42550xM</i>	incl. 2x Power supply ~ 7 kg	
	<i>MS425504M-48-V2</i>	~ 2 kg	
LED-Displays	<i>MS42550xM</i>	per PS:	green Voltage ok Red Error
	<i>MS425504M-48-V2</i>	Back	Power ok Error Power Error Fan
Management	only in conjunction with MSP1000 agent		
Certifications	EN60950-1:2006 (TÜV) EN55022:2006 Class A CE FCC part 15 CDRH 21 CFR 1040 Laser Class 1M Product		

Cooling System

MS42550xM (4U)

- Rear integrated fan module with three separate fan units
- Redundant and separately powered by integrated power supplies
- Fan speed can be monitored via management
- Fan malfunction can be monitored via trap
- Fan module can be changed during operation

MS425504M-48-V2 (1U)

- Rear integrated fan module with four separate fan units
- Fan speed can be monitored via management
- Fan malfunction can be monitored via trap

Visualization

MS42550xM (4U)



AC

MS425500M



DC

MS425501M



Mixed

MS425502M

MS425504M-48-V2 (1U)



MS425505M (1U)



Order Information

Description	Art.-No.
MSP1000 Enterprise 4U Chassis	
MSP1000 Enterprise 4U Chassis AC 19" 2 Slots for 2x 230 VAC-power supply prep., 11 Modulslots, incl. Backplane, incl. 3-fold Fanmodul	MS425500M
MSP1000 Enterprise 4U Chassis DC 19" 2 Slots for 2x 48 VDC- power supply prep., 11 Modulslots, incl. Backplane, incl. 3-fold Fanmodul	MS425501M
MSP1000 Enterprise 4U Chassis AC/DC 19" 2 Slots for 48 VDC and 230 VAC- power supply prep., 11 Modulslots, incl. Backplane, incl. 3- fold Fanmodul	MS425502M
MSP1000 1U Chassis	
MSP1000 1U Chassis DC 19" 3 Modulslots, incl. Backplane, incl. Fanmodul	MS425504M-48-V2
MSP1000 1U Chassis 19" passive 3 Modulslots for passive user modules	MS425505M
MSP1000 Power Supply	
MSP1000 Enterprise AC Power supply module Input: 90..264 VAC, 50..60 Hz, max. 250 W	MS425510
MSP1000 Enterprise DC Power supply module Input: 36..75 VDC, max. 250 W	MS425511
MSP1000 Power supply 54V/1,2A 65W prim. Euro-8 Cable	MS700701
MSP1000 Accessories	
MSP1000 Blind cover PS Cover for unused power supply slot	MS425590
MSP1000 Blind cover Cover for unused module slot	MS425591
MSP1000 Blind Cover 5-fold Cover for 5 unused module slot	MS425595

* For more information on the MSP1000 portfolio, please refer to our document [„Technical Description MICROSENS MSP1000 Optical Platform.pdf“](#).

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