



CATALOGO  
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## Industrial Ethernet Media Converters










MODEL	MCF-D5	MCFP-D5	MCFP90-D5	MCG-D5	MCGP-D5	MCGP90-D5
RJ45 ports and speed	1*10/100Base-TX			1*10/100/1000Base-TX		
Fiber ports and speed	1*100Base-X SFP (optionally fiber inbuilt)			1*100/1000Base-X SFP (optionally fiber inbuilt)		
Fiber connectors	As per SFP module (optionally with fiber inbuilt: SC or ST)					
Max distance over fiber	As per SFP module (optionally with fiber inbuilt: 2km for Multimode 20km for Singlemode)					
PoE	Not supported	IEEE802.3af/at Max output 30W	IEEE802.3af/at/bt Max output 90W	Not supported	IEEE802.3af/at Max output 30W	IEEE802.3af/at/bt Max output 90W
Power Input	12-48VDC, redundant		48-57VDC	12-48VDC, redundant		48-57VDC
Max Power consumption	5W	35W	95W	5W	35W	95W
Operating Temperature	-40°C ~ +75°C					
Dimensions	95*70*30mm					
Mounting	Din-Rail or Wallmount					
Warranty	5 years					






## Commercial & Special Ethernet Media Converters

					
MODEL	MCG-S1-xyz	MCG-S2	MCF-C1-xyz	MCG-C1-xyz	MCC-D4
RJ45 ports and speed	1*10/100/1000Base-TX		1*10/100Base-TX	1*10/100/1000Base-TX	1*10/100Base-TX
Fiber ports and speed	1*100/1000Base-X fiber inbuilt	1*100/1000Base-X SFP	1*100Base-X SFP or fiber inbuilt	1*1000Base-X SFP or fiber inbuilt	1*100/1000Base-X SFP
I/O ports	Not supported				1 * bidirectional Contact Closure
Fiber connectors	SC or ST	As per SFP module	SC or ST or as per SFP module	SC or ST or as per SFP module	As per SFP module
Max distance over fiber	1km for Multimode 20km for Singlemode	As per SFP module	2km for Multimode 20km for Singlemode or as per SFP module	1km for Multimode 20km for Singlemode or as per SFP module	As per SFP module
PoE	Not supported				
Power Input	5-15VDC		From RM-C1 chassis		9-48VDC 9~24VAC
Max Power consumption	3W			5W	
Operating Temperature	-10°C ~ +60°C				-40°C ~ +75°C
Dimensions	18*44*62mm	18*27*79mm	87*130*25mm		90*70*30mm
Mounting	Standalone or Wallmount		Card, mountable in RM-C1 chassis		Din-Rail or Wallmount
Warranty	3 years				5 years





## Unmanaged Industrial Ethernet Switches

								
MODEL	SUG210-D5	SUG220-D6	SUG410-D1	SUG420-D1	SUG510-D1	SUG820-D2	SUG1620-D3	
RJ45 ports and speed	2*10/100/1000Base-TX		4*10/100/1000 Base-TX		5*10/100/1000 Base-TX	8*10/100/1000 Base-TX	16*10/100/1000 Base-TX	
Fiber ports and speed	1*100/1000Base-X SFP	2*100/1000Base-X SFP	1*1000Base-X SFP	2*1000Base-X SFP	1*1000Base-X SFP	2*1000Base-X SFP		
Switching Bandwidth	6Gbps	8Gbps	10Gbps	12Gbps		20Gbps	36Gbps	
DIP switches	Not supported	<ol style="list-style-type: none"> <li>1. Redundant fiber</li> <li>2. Flow control</li> <li>3. Broadcast storm suppression</li> <li>4. 100M/1G selection</li> </ol>	<ol style="list-style-type: none"> <li>1. Port isolation</li> <li>2. Flow control</li> <li>3. QoS</li> <li>4. Broadcast storm suppression</li> </ol>				<ol style="list-style-type: none"> <li>1. Link aggregation</li> <li>2. Flow control</li> <li>3. QoS</li> <li>4. Broadcast storm suppression</li> </ol>	
Fiber connectors	As per SFP module (LC or SC)							
Max distance over fiber	As per SFP module (1/2/20km and optional more)							
PoE	Not supported							
Power Input	12-48VDC redundant	12-58VDC, redundant						
Max Power consumption	5W					8W	10W	
Operating Temperature	-40°C ~ +75°C							
Dimensions	95*70*30mm	85*85*30mm	130*98*30mm			130*98*48mm	158*115*54mm	
Mounting	Din-Rail or Wallmount							







## Unmanaged Industrial Ethernet Switches with PoE

					
MODEL	SUG210P-D5	SUG210P90-D5	SUG220P-D6	SUG410P-D1	SUG420P-D1
RJ45 ports and speed	2*10/100/1000Base-TX			4*10/100/1000Base-TX	
Fiber ports and speed	1*100/1000Base-X SFP		2*100/1000Base-X SFP	1*1000Base-X SFP	2*1000Base-X SFP
Switching Bandwidth	6Gbps		8Gbps	10Gbps	12Gbps
DIP Switches	Not supported		<ol style="list-style-type: none"> <li>1. Redundant fiber</li> <li>2. 100M/1G selection</li> <li>3. 250m Extended Ethernet</li> <li>4. PoE Watchdog</li> </ol>	<ol style="list-style-type: none"> <li>1. Port isolation</li> <li>2. 250m Extended Ethernet</li> <li>3. QoS</li> <li>4. PoE Watchdog</li> </ol>	
Fiber connectors	As per SFP module (LC or SC)				
Max distance over fiber	As per SFP module (1/2/20km or optional more)				
PoE	IEEE802.3af/at Max output 30W per port (60W Total)	IEEE802.3af/at/bt Max output 90W per port (180W Total)	IEEE802.3af/at Max output 30W per port (60W Total)	IEEE802.3af/at Max output 30W per port (120W Total)	
Power Input	12-48VDC, redundant	48-57VDC	44-57VDC, redundant		
Max Power consumption	65W	185W	65W	125W	
Operating Temperature	-40°C ~ +75°C				
Dimensions	95*70*30mm		85*85*30mm	130*98*30mm	
Mounting	Din-Rail or Wallmount				

## Unmanaged Industrial Ethernet Switches with PoE

				
MODEL	SUG500P90-D5	SUG510P-D1	SUG820P-D2	SUG1620P-D3
RJ45 ports and speed	5*10/100/1000Base-TX		8*10/100/1000Base-TX	16*10/100/1000Base-TX
Fiber ports and speed	Not supported	1*1000Base-X SFP	2*1000Base-X SFP	
Switching Bandwidth	10Gbps	12Gbps	20Gbps	36Gbps
DIP switches	Not supported	1. Port isolation 2. 250m Extended Ethernet 3. QoS 4. PoE Watchdog		1. Link aggregation 2. 250m Extended Ethernet 3. QoS 4. PoE Watchdog
Fiber connectors	Not supported	As per SFP module (LC or SC)		
Max distance over fiber	Not supported	As per SFP module (1/2/20km or optional more)		
PoE	In: 1*IEEE 802.3at/bt max 90W Out: 4*IEEE 802.3af/at max 30W per port (75W Total)	Ports 1-4: IEEE802.3af/at Max output 30W per port (120W Total)	IEEE802.3af/at Max output 30W per port (240W Total)	
Power Input	PoE, IEEE 802.3at/bt	44-57VDC, redundant		
Max Power consumption	90W	125W	248W	250W
Operating Temperature	-40°C ~ +75°C			
Dimensions	95*70*30mm	130*98*30mm	130*98*48mm	158*115*54mm
Mounting	Din-Rail or Wallmount			

## Managed L2 Industrial Ethernet Switches

						
MODEL	SMG410-D1	SMG420-D1	SMG820-D2	SMG820-D3	SMG840-D3	SMG1620-D3
RJ45 ports and speed	4*10/100/1000Base-TX		8*10/100/1000Base-TX			16*10/100/1000 Base-TX
Fiber ports and speed	1*1000Base-X SFP	2*1000Base-X SFP	2*1/2.5GBase-X SFP		4*1/2.5GBase-X SFP	2*1/2.5GBase-X SFP
Switching Bandwidth	10Gbps	12Gbps	26Gbps		36Gbps	
I/O ports	Not supported			1 * DI (Digital Input) 1 * DO (Digital Output) 1 * RS485 Modbus Data		1 * Digital alarm output relay
Fiber connectors	As per SFP module (LC or SC)					
Max distance over fiber	As per SFP module (1/2/20km or optional more)					
PoE	Not supported					
Power Input	12-58VDC, redundant					
Max Power consumption	6W		10W			15W
Operating Temperature	-40°C ~ +75°C					
Dimensions	130*98*30mm		130*98*48mm	158*115*54mm		
Mounting	Din-Rail or Wallmount					









## Managed L2 Industrial Ethernet Switches



MODEL	SMG2440-1U	SMX2440-1U	SMG1648-1U	SMX1648-1U	SMG0208-1U	SMX0208-1U
RJ45 ports and speed	24*10/100/1000Base-TX		16*10/100/1000Base-TX		Not supported (refer to combo ports)	
Fiber ports and speed	4*1/2.5GBase-X SFP	4*1/2.5/10GBase-X SFP+	4*1/2.5GBase-X SFP	4*1/2.5/10GBase-X SFP+	16*100/1000Base-X SFP 4*1/2.5GBase-X SFP	16*100/1000Base-X SFP 4*1/2.5/10GBase-X SFP+
Combo ports and speed	Not supported		8*10/100/1000Base-TX or 1000Base-X SFP			
Switching Bandwidth	68Gbps	128Gbps	68Gbps	128Gbps	68Gbps	128Gbps
I/O ports	1 * DI (Digital Input) / 1 * DO (Digital Output) / 1 * RS485 Modbus Data					
Fiber connectors	As per SFP module (LC or SC)					
Max distance over fiber	As per SFP module (1/2/20km or optional more)					
PoE	Not supported					
Power Input	100~240VAC (optional DC), redundant					
Max Power consumption	30W	32W		36W		40W
Operating Temperature	-40°C ~ +75°C					
Dimensions	44*280*440mm					
Mounting	19" Rack mountable, 1U height					

## Managed L2 Industrial Ethernet Switches with PoE

						
<b>MODEL</b>	<b>SMG410P-D1</b>	<b>SMG420P-D1</b>	<b>SMG820P-D2</b>	<b>SMG820P-D3</b>	<b>SMG840P-D3</b>	<b>SMG1620P-D3</b>
RJ45 ports and speed	4*10/100/1000Base-TX		8*10/100/1000Base-TX			16*10/100/1000 Base-TX
Fiber ports and speed	1*1000Base-X SFP	2*1000Base-X SFP	2*1/2.5GBase-X SFP		4*1/2.5GBase-X SFP	2*1/2.5GBase-X SFP
Switching Bandwidth	10Gbps	12Gbps	26Gbps		36Gbps	
I/O ports	Not supported			1 * DI (Digital Input) 1 * DO (Digital Output) 1 * RS485 Modbus Data		1 * Digital alarm output relay
Fiber connectors	As per SFP module (LC or SC)					
Max distance over fiber	As per SFP module (1/2/20km or optional more)					
PoE	IEEE802.3af/at Max output 30W per port (120W Total)		IEEE802.3af/at Max output 30W per port (240W Total)			
Power Input	44-57VDC, redundant					
Max Power consumption	1266W		250W		255W	
Operating Temperature	-40°C ~ +75°C					
Dimensions	130*98*30mm		130*98*48mm		158*115*54mm	
Mounting	Din-Rail or Wallmount					

## Managed L2 Industrial Ethernet Switches with PoE



MODEL	SMG2440P-1U	SMX2440P-1U	SMG1648P-1U	SMX1648P-1U
RJ45 ports and speed	24*10/100/1000Base-TX		16*10/100/1000Base-TX	
Fiber ports and speed	4*1/2.5GBase-X SFP	4*1/2.5/10GBase-X SFP+	4*1/2.5GBase-X SFP	4*1/2.5/10GBase-X SFP+
Combo ports and speed	Not supported		8*10/100/1000Base-TX or 1000Base-X SFP	
Switching Bandwidth	68Gbps	128Gbps	68Gbps	128Gbps
I/O ports	1 * DI (Digital Input) / 1 * DO (Digital Output) / 1 * RS485 Modbus Data			
Fiber connectors	As per SFP module (LC or SC)			
Max distance over fiber	As per SFP module (1/2/20km or optional more)			
PoE	Ports 1-24: IEEE802.3af/at Max output 30W per port (370W Total)		Ports 1-16: IEEE802.3af/at Max output 30W per port (370W Total)	
Power Input	44-57VDC, redundant			
Max Power consumption	400W			410W
Operating Temperature	-40°C ~ +75°C			
Dimensions	44*280*440mm			
Mounting	19" Rack mountable, 1U height			

## Managed L2 Commercial Ethernet Switches



MODEL	SMG2440C-1U	SMX2440C-1U	SMG1648C-1U	SMX1648C-1U	SMG0208C-1U	SMX0208C-1U
RJ45 ports and speed	24*10/100/1000Base-TX		16*10/100/1000Base-TX		Not supported (refer to combo ports)	
Fiber ports and speed	4*1000Base-X SFP	4*1/2.5/10GBase-X SFP+	4*1000Base-X SFP	4*1/2.5/10GBase-X SFP+	16*100/1000Base-X SFP 4*1000Base-X SFP	16*100/1000Base-X SFP 4*1/2.5/10GBase-X SFP+
Combo ports and speed	Not supported		8*10/100/1000Base-TX or 1000Base-X SFP			
Switching Bandwidth	56Gbps	128Gbps	56Gbps	128Gbps	56Gbps	128Gbps
I/O ports	Not supported					
Fiber connectors	As per SFP module (LC or SC)					
Max distance over fiber	As per SFP module (1/2/20km or optional more)					
PoE	Not supported					
Power Input	100~240VAC					
Max Power consumption	40W					
Operating Temperature	0°C ~ +50°C					
Dimensions	44*245*440mm					
Mounting	19" Rack mountable, 1U height					

## Managed L2 Commercial Ethernet Switches with PoE



MODEL	SMG2440CP-1U	SMX2440CP-1U	SMG1648CP-1U	SMX1648CP-1U
RJ45 ports and speed	24*10/100/1000Base-TX		16*10/100/1000Base-TX	
Fiber ports and speed	4*1000Base-X SFP	4*1/2.5/10GBase-X SFP+	4*1000Base-X SFP	4*1/2.5/10GBase-X SFP+
Combo ports and speed	Not supported		8*10/100/1000Base-TX or 1000Base-X SFP	
Switching Bandwidth	56Gbps	128Gbps	56Gbps	128Gbps
I/O ports	Not supported			
Fiber connectors	As per SFP module (LC or SC)			
Max distance over fiber	As per SFP module (1/2/20km or optional more)			
PoE	Ports 1-24: IEEE802.3af/at Max output 30W per port (370W Total)		Ports 1-16: IEEE802.3af/at Max output 30W per port (370W Total)	
Power Input	100~240VAC			
Max Power consumption	440W			
Operating Temperature	0°C ~ +50°C			
Dimensions	44*245*440mm			
Mounting	19" Rack mountable, 1U height			

## PoE Injectors & Splitters



MODEL	INGP-D5	INGP90-D5	SPGP90-D5-5	SPGP90-D5-12	SPGP90-D5-24
Type	Injector		Splitter		
RJ45 ports and speed	1*10/100/1000Base-TX (in-Ethernet only) 1*10/100/1000Base-TX (out-Ethernet with PoE)		1*10/100/1000Base-TX (in-Ethernet with PoE) 1*10/100/1000Base-TX (out-Ethernet only)		
PoE	PoE/PSE IEEE802.3af/at Max output 30W	PoE/PSE IEEE802.3af/at/bt Max output 90W	PoE/PD type IEEE802.3af/at/bt (as input only)		
Power Input	12-48VDC	12-48VDC For more than 60W PoE output, min 24VDC	PoE, IEEE 802.3af/at/bt		
Power Output	Not supported		5V	12V	24V
Max Power consumption	35W	95W	90W (from PoE/PSE)		
Operating Temperature	-40°C ~ +75°C				
Dimensions	95*70*30mm				
Mounting	Din-Rail or Wallmount				
Warranty	5 years				

## 100Mbps SFP Modules



MODEL	SFP-FLC-MM	SFP-FLC-MMA	SFP-FLC-MMB	SFP-FLC-SM	SFP-FLC-SMA	SFP-FLC-SMB	SFP-FSC-MMA	SFP-FSC-MMB	SFP-FSC-SMA	SFP-FSC-SMB
Speed	100Mbps (155M)									
Fiber type	Multi Mode			Single Mode			Multi Mode		Single Mode	
Fiber count	2	1		2	1		1			
Wavelength, nm	1310	1310TX 1550RX	1550TX 1310RX	1310	1310TX 1550RX	1550TX 1310RX	1310TX 1550RX	1550TX 1310RX	1310TX 1550RX	1550TX 1310RX
Connector	LC						SC			
Max distance	2km			20km			2km		20km	
Standards	MSA (Multi-Source Agreement) compliant / DDM (Digital Diagnostic Monitoring) support									
Operating temperature	-40°C ~ +85°C									

## 1Gbps SFP Modules



MODEL	SFP-GLC-MM	SFP-GLC-MMA	SFP-GLC-MMB	SFP-GLC-SM	SFP-GLC-SMA	SFP-GLC-SMB	SFP-GSC-MMA	SFP-GSC-MMB	SFP-GSC-SMA	SFP-GSC-SMB	SFP-GRJ-45
Speed	1Gbps (1.25G)										10/100/1000Mbps
Fiber type	Multi Mode			Single Mode			Multi Mode		Single Mode		-
Fiber count	2	1		2	1		1				-
Wavelength, nm	1310	1310TX 1550RX	1550TX 1310RX	1310	1310TX 1550RX	1550TX 1310RX	1310TX 1550RX	1550TX 1310RX	1310TX 1550RX	1550TX 1310RX	-
Connector	LC						SC				RJ45
Max distance	1km			20km			1km		20km		100m
Standards	MSA (Multi-Source Agreement) compliant / DDM (Digital Diagnostic Monitoring) support										
Operating temperature	-40°C ~ +85°C										



## 10Gbps SFP Modules



MODEL	SFP-XLC-MM	SFP-XLC-SM	SFP-XLC-SMA	SFP-XLC-SMB	SFP-XSC-SMA	SFP-XSC-SMB
Speed	10Gbps					
Fiber type	Multi Mode	Single Mode				
Fiber count	2		1			
Wavelength, nm	850	1310	1270TX 1330RX	1330TX 1270RX	1270TX 1330RX	1330TX 1270RX
Connector	LC				SC	
Max distance	300m	10km	20km			
Standards	MSA (Multi-Source Agreement) compliant / DDM (Digital Diagnostic Monitoring) support					
Operating temperature	-40°C ~ +85°C					

## Power Supplies



MODEL	MDR-10-12	MDR-40-48	NDR-75-48	NDR-120-48	NDR-240-48	NDR-480-48
Input Voltage	85 ~ 264VAC 120 - 370VDC		90 ~ 264VAC 127 - 370VDC			
Output Voltage	12VDC	48 - 56VDC	48 - 55VDC			
Rated Output Current	0.84A	0.83A	1.6A	2.5A	5A	10A
Rated Output Power	10W	40W	75W	120W	240W	480W
Dimensions	22.5*90*100mm	40*90*100mm	32*125.2*102mm	40*125.2*113.5mm	63*125.2*113.5mm	85.5*125.2*128.5mm
Weight	0.15kg	0.3kg	0.51kg	0.6kg	1kg	1.5kg
Operating Temperature	-20°C ~ +70°C					
Mounting	Din-Rail					

