



SIMATIC S7-1500, TM MFP, Technology module Multi functional platform incl. 2 x Ethernet 2 x USB 1 x DPP Operating system: Industrial OS

General information	
Product type designation	TM MFP
Firmware version	V1.1
<ul style="list-style-type: none"> <li>FW update possible</li> </ul>	Yes
Product function	
<ul style="list-style-type: none"> <li>I&amp;M data</li> </ul>	Yes; I&M0 to I&M4
Engineering with	
<ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	integrated as of V19 with HSP or as of V20
<ul style="list-style-type: none"> <li>STEP 7 configurable/integrated from version</li> </ul>	- / -
<ul style="list-style-type: none"> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	- / -
<ul style="list-style-type: none"> <li>PROFINET from GSD version/GSD revision</li> </ul>	- / -
Installation type/mounting	
Mounting position	Horizontal, vertical
Rail mounting	Yes
Control cabinet installation	Yes
Power	
Power consumption from the backplane bus	25 W
Power loss	
Power loss, typ.	10.5 W
Drives	
SSD	Yes; 128 GB
Address area	
Address space per module	
<ul style="list-style-type: none"> <li>Inputs</li> </ul>	256 byte
<ul style="list-style-type: none"> <li>Outputs</li> </ul>	256 byte
Interfaces	
Number of Ethernet interfaces	2
Number of USB interfaces	2
SD card slot	No
Video interfaces	
<ul style="list-style-type: none"> <li>Graphics interface</li> </ul>	1x DisplayPort
Interface types	
RJ 45 (Ethernet)	
<ul style="list-style-type: none"> <li>1000 Mbps</li> </ul>	Yes
USB port	
<ul style="list-style-type: none"> <li>USB specification</li> </ul>	USB 3.0
<ul style="list-style-type: none"> <li>Design of the USB ports</li> </ul>	USB type A socket
Protocols	
Protocols (Ethernet)	

• GigE Vision	No	
<b>Web server</b>		
• supported	No	
<b>Interrupts/diagnostics/status information</b>		
Status indicator	Yes	
Alarms	Yes	
Diagnostics function	Yes	
<b>Diagnostics indication LED</b>		
• RUN LED	Yes	
• ERROR LED	Yes	
• MAINT LED	Yes	
• LINK LED	Yes	
• ACT LED	Yes	
• Monitoring of the supply voltage (PWR-LED)	Yes	
<b>Ambient conditions</b>		
<b>Ambient temperature during operation</b>		
• horizontal installation, min.	0 °C	
• horizontal installation, max.	60 °C	
• vertical installation, min.	0 °C	
• vertical installation, max.	40 °C	
<b>Ambient temperature during storage/transportation</b>		
• min.	-40 °C	
• max.	70 °C	
<b>Altitude during operation relating to sea level</b>		
• Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual	
<b>Operating systems</b>		
<b>pre-installed operating system</b>		
• Industrial OS	Yes	
<b>Decentralized operation</b>		
to SIMATIC S7-300	No	
to SIMATIC S7-400	No	
to SIMATIC S7-1200	No	
to SIMATIC S7-1500	No	
to standard PROFIBUS master	No	
to standard PROFINET controller	No	
<b>Dimensions</b>		
Width	70 mm	
Height	147 mm	
Depth	129 mm	
<b>Weights</b>		
Weight, approx.	645 g	
<b>Classifications</b>		
	<b>Version</b>	<b>Classification</b>
eClass	14	27-24-22-05
eClass	12	27-24-22-05
eClass	9.1	27-24-22-05
eClass	9	27-24-22-05
eClass	8	27-24-22-05
eClass	7.1	27-24-22-05
eClass	6	27-24-22-05
ETIM	10	EC001422
ETIM	9	EC001422
ETIM	8	EC001422
ETIM	7	EC001422
<b>Approvals / Certificates</b>		
<b>General Product Approval</b>		



[Miscellaneous](#)

[China RoHS](#)



For use in hazardous locations



[FM](#)

[CCC-Ex](#)

[Miscellaneous](#)



[Type Examination Certificate](#)

For use in hazardous locations

Maritime application



IECEX



ABS



BUREAU  
VERITAS



DNV



LRS

[NK / Nippon Kaiji Kyokai](#)

Maritime application



RINA

[CCS \(China Classification Society\)](#)



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KOREAN REGISTER

last modified:

9/24/2025