# **SIEMENS**

### **Data sheet**

## 6GK7242-5DX30-0XE0

#### product type designation



#### CM 1242-5

communications module CM 1242-5; for connection of SIMATIC S7-1200 to PROFIBUS as DP slave module.

transfer rate  • at the 1st interface / according to PROFIBUS  • at the 1st interfaces / according to Industrial Ethernet  • at the 1st interfaces / according to Industrial Ethernet  • at the 1st interface / according to PROFIBUS  • for power supply  • for power supply  • at the 1st interface / according to PROFIBUS  • for power supply  • at the 1st interface / according to PROFIBUS  • at the 1st interface / according to PROFIBUS  supply voitage, current consumption, power loss type of voitage / of the supply voitage  supply voitage / of the supply voitage  supply voitage / 1 / from backplane bus  5 V  consumed current  • from backplane bus / at DC / at 5 V / typical  on 15 A  power loss [W]  ambient conditions  ambient temperature  • for vertical installation / during operation  • for horizontally arranged busbars / during operation  • for horizontally arranged busbars / during operation  • during storage  • during transport  relative humidity  • at 25° C / without condensation / during operation / 95 %  maximum  protection class IP  [IP20]  design, dimensions and weights  module format  width  30 mm  height  fastening method  • 35 mm Din-rail mounting  • val mounting	Technical Product Detail Page	https://i.siemens.com/1P6GK7242-5DX30-0XE0
at the 1st interface / according to PROFIBUS  Interfaces number of interfaces / according to Industrial Ethernet number of electrical connections  • at the 1st interface / according to PROFIBUS 1 • for power supply 0 type of electrical connection • at the 1st interface / according to PROFIBUS 1 type of electrical connection • at the 1st interface / according to PROFIBUS 9-pin Sub-D socket (RS485)  supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / 1 / from backplane bus consumed current • from backplane bus / at DC / at 5 V / typical power loss [W]  consumed current • for vertical installation / during operation • for horizontally arranged busbars / during operation • of rohorizontally arranged busbars / during operation • our gloss plorge • during transport  relative humidity • at 25 °C / without condensation / during operation / according transport  relative humidity • at 25 °C / without condensation / during operation / asking measing measing measing method • 35 mm height 100 mm depth 15 mm net weight fastening method • 35 mm DIN-rail mounting • 87-300 rail mounting • 87-300 rail mounting • 88-37-300 rail mounting • 89-40 mounting • 87-300 rail mounting • 87-300 rail mounting • 98-40 mou		
Interfaces number of interfaces / according to Industrial Ethernet number of electrical connections • at the 1st Interface / according to PROFIBUS • for power supply type of electrical connection • at the 1st Interface / according to PROFIBUS supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / of / from backplane bus  5 V consumed current • from backplane bus / at DC / at 5 V / typical 0.15 A power loss [W] ambient conditions ambient temperature • for vertical installation / during operation of rohorizontally arranged busbars / during operation • of voltage and the supply voltage • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP  design, dimensions and weights module format  Compact module S7-1200 single width width 100 mm depth 75 mm net weight fastening method • 35 mm DINt-rail mounting ves vell mounting Ves product features, product functions, product components / general	transfer rate	
number of interfaces / according to Industrial Ethernet number of electrical connections • at the 1st interface / according to PROFIBUS • for power supply type of electrical connection • at the 1st interface / according to PROFIBUS • at the 1st interface / according to PROFIBUS • at the 1st interface / according to PROFIBUS  supply voltage, current consumption, power loss type of voltage / of the supply voltage  supply voltage / 1 / from backplane bus  consumed current • from backplane bus / at DC / at 5 V / typical power loss [W]  ambient conditions  ambient temperature • for vertical installation / during operation • for horizontally arranged busbars / during operation • for horizontally arranged busbars / during operation • during storage • during transport • during transport relative humidity • at 25 °C / without condensation / during operation / maximum  protection class IP  design, dimensions and weights  module format  width  30 mm height depth 75 mm net weight fastening method • 35 mm DIN-rail mounting • Yes  sr-300 rail mounting • Yes  product features, product functions, product components / general	<ul> <li>at the 1st interface / according to PROFIBUS</li> </ul>	9.6 kbit/s 12 Mbit/s
number of electrical connections  • at the 1st interface / according to PROFIBUS  • for power supply  type of electrical connection  • at the 1st interface / according to PROFIBUS  • at the 1st interface / according to PROFIBUS  • at the 1st interface / according to PROFIBUS  supply voltage, current consumption, power loss  type of voltage / of the supply voltage  supply voltage / of the supply voltage  supply voltage / 1 / from backplane bus  ocnsumed current  • from backplane bus / at DC / at 5 V / typical  onto the supply voltage / 1 / from backplane bus  ambient conditions  ambient emperature  • for vertical installation / during operation  • for horizontally arranged busbars / during operation  • during storage  • during storage  • during transport  relative humidity  • at 25 °C / without condensation / during operation / maximum  protection class IP  IP20  design, dimensions and weights  module format  Compact module S7-1200 single width  width  30 mm  height  depth  75 mm  net weight  fastening method  • 35 mm DIN-rail mounting  ves  syr-300 rail mounting  ves  product features, product functions, product components / general	interfaces	
• at the 1st interface / according to PROFIBUS • for power supply type of electrical connection • at the 1st interface / according to PROFIBUS supply voltage, current consumption, power loss type of voltage / of the supply voltage  Supply voltage / 1 / from backplane bus • from backplane bus / at DC / at 5 V / typical • from backplane bus / at DC / at 5 V / typical  • from backplane bus / at DC / at 5 V / typical  • for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum  protection class IP  dosign, dimensions and weights  module format width • ag mm DIN-rail mounting • S7-300 rail mounting • Well mounting Free Free Free Free Free Free Free Fre	number of interfaces / according to Industrial Ethernet	0
• for power supply type of electrical connection • at the 1st interface / according to PROFIBUS supply voltage, current consumption, power loss type of voltage / of the supply voltage provides of the supply voltage supply voltage / 1 / from backplane bus consumed current • from backplane bus / at DC / at 5 V / typical power loss [W]  ambient conditions ambient temperature • for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP  design, dimensions and weights module format	number of electrical connections	
type of electrical connection  • at the 1st interface / according to PROFIBUS  supply voltage, current consumption, power loss  type of voltage / of the supply voltage  supply voltage / 1 / from backplane bus  • from backplane bus / at DC / at 5 V / typical  • from backplane bus / at DC / at 5 V / typical  power loss [W]  ambient conditions  ambient temperature  • for vortical installation / during operation  • for horizontally arranged busbars / during operation  • during storage  • during transport  • at 25 °C / without condensation / during operation / maximum  protection class IP  design, dimensions and weights  module format  width  • at 25 °C / without condensation / during operation  vide format  compact module S7-1200 single width  vidth  100 mm  depth  net weight  fastening method  • 35 mm DIN-rall mounting  • xes  S7-300 rail mounting  ves  product features, product functions, product components / general	<ul> <li>at the 1st interface / according to PROFIBUS</li> </ul>	1
at the 1st interface / according to PROFIBUS  supply voltage, current consumption, power loss type of voltage / of the supply voltage DC supply voltage / 1 / from backplane bus 5 V consumed current  • from backplane bus / at DC / at 5 V / typical 0.15 A power loss [W] 0.75 W  ambient conditions  ambient temperature  • for vertical installation / during operation 0 45 °C • during storage 40 +70 °C • during storage 40 +70 °C • during transport 40 +70 °C  relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP  design, dimensions and weights  module format Compact module S7-1200 single width width 30 mm height 100 mm depth 75 mm net weight fastening method • \$7-300 rail mounting Yes • wall mounting Yes product features, product functions, product components / general	• for power supply	0
type of voltage, current consumption, power loss type of voltage / 1 / from backplane bus 5 V  consumed current  • from backplane bus / at DC / at 5 V / typical 0.15 A  power loss [W] 0.75 W  ambient conditions  ambient temperature  • for vertical installation / during operation 0 45 °C  • during storage 40 +70 °C  • during transport 40 +70 °C  relative humidity  • at 25 °C / without condensation / during operation / maximum protection class IP  design, dimensions and weights  module format Compact module S7-1200 single width  width 30 mm  height 0.115 kg  fastening method  • \$7-300 rail mounting Yes  eval mounting Yes  product features, product functions, product components / general	type of electrical connection	
type of voltage / of the supply voltage supply voltage / 1 / from backplane bus 5 V consumed current  • from backplane bus / at DC / at 5 V / typical 0.15 A power loss [W] 0.75 W ambient conditions  ambient temperature  • for vertical installation / during operation 0 45 °C • for horizontally arranged busbars / during operation 0 55 °C • during storage 40 +70 °C  • during transport 40 +70 °C  relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP IP20  design, dimensions and weights  module format Compact module S7-1200 single width width 30 mm height 100 mm depth 75 mm net weight 0.115 kg fastening method • 35 mm DIN-rail mounting Yes • S7-300 rail mounting Yes product features, product functions, product components / general	at the 1st interface / according to PROFIBUS	9-pin Sub-D socket (RS485)
supply voltage / 1 / from backplane bus 5 V  consumed current  • from backplane bus / at DC / at 5 V / typical 0.15 A  power loss [W] 0.75 W  ambient conditions  ambient temperature  • for vertical installation / during operation 0 45 °C  • for horizontally arranged busbars / during operation 4 +70 °C  • during storage 4 +70 °C  • during transport -40 +70 °C  relative humidity  • at 25 °C / without condensation / during operation / maximum protection class IP IP20  design, dimensions and weights  module format Compact module S7-1200 single width 30 mm  height 100 mm  depth 75 mm  net weight 0.115 kg  fastening method  • 35 mm DIN-rail mounting Yes  eval mounting Yes  product features, product functions, product components / general	supply voltage, current consumption, power loss	
consumed current  • from backplane bus / at DC / at 5 V / typical  power loss [W]  ambient conditions  ambient temperature  • for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during storage • during transport • during transport  relative humidity • at 25 °C / without condensation / during operation / maximum  protection class IP  design, dimensions and weights  module format  width • at 02 °C / maximum  height  100 mm  depth 75 mm  net weight  fastening method • 35 mm DIN-rail mounting • S7-300 rail mounting • wall mounting • yes	type of voltage / of the supply voltage	DC
• from backplane bus / at DC / at 5 V / typical     power loss [W]     ambient conditions  ambient temperature     • for vertical installation / during operation     • for vertical installation / during operation     • for horizontally arranged busbars / during operation     • during storage     • during transport     • during transport     • at 25 °C / without condensation / during operation / maximum     protection class IP  design, dimensions and weights  module format     Compact module S7-1200 single width     width     30 mm  height     depth     75 mm  net weight  fastening method     • 35 mm DIN-rail mounting     • S7-300 rail mounting     • wall mounting     • wall mounting     ves  product features, product functions, product components / general	supply voltage / 1 / from backplane bus	5 V
power loss [W] 0.75 W  ambient conditions  ambient temperature  • for vertical installation / during operation • for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport -40 +70 °C  relative humidity • at 25 °C / without condensation / during operation / maximum  protection class IP  IP20  design, dimensions and weights  module format	consumed current	
ambient conditions  ambient temperature  • for vertical installation / during operation  • for horizontally arranged busbars / during operation  • during storage  • during transport  • during transport  relative humidity  • at 25 °C / without condensation / during operation / maximum  protection class IP  design, dimensions and weights  module format  width  • 30 mm  height  depth  net weight  fastening method  • 35 mm DIN-rail mounting  • wall mounting  • wall mounting  reaction  O 45 °C  O 45 °C  O 45 °C  O 470 °C  C 40 +70 °C  C 40 +70 °C  C 40 +70 °C  - 40 +70 °C	<ul> <li>from backplane bus / at DC / at 5 V / typical</li> </ul>	0.15 A
ambient temperature  • for vertical installation / during operation  • for horizontally arranged busbars / during operation  • for horizontally arranged busbars / during operation  • during storage  • during transport  relative humidity  • at 25 °C / without condensation / during operation / maximum  protection class IP    IP20	power loss [W]	0.75 W
for vertical installation / during operation     for horizontally arranged busbars / during operation     during storage     during transport     during transport -40 +70 °C      during transport -40 +70 °C  relative humidity     at 25 °C / without condensation / during operation / maximum  protection class IP  IP20  design, dimensions and weights  module format     width     height     depth     ret weight fastening method     35 mm DIN-rail mounting     ves     S7-300 rail mounting     wall mounting     ves  product features, product functions, product components / general	ambient conditions	
• for horizontally arranged busbars / during operation     • during storage     • during transport     relative humidity     • at 25 °C / without condensation / during operation / maximum  protection class IP  design, dimensions and weights  module format  width  height  depth  net weight  fastening method  • 35 mm DIN-rail mounting  • wall mounting  product features, product functions, product components / general	ambient temperature	
<ul> <li>during storage</li> <li>during transport</li> <li>during transport</li> <li>during transport</li> <li>during transport</li> <li>at 25 °C / without condensation / during operation / maximum</li> <li>protection class IP</li> <li>IP20</li> <li>design, dimensions and weights</li> <li>module format</li> <li>Compact module S7-1200 single width</li> <li>width</li> <li>width</li> <li>height</li> <li>depth</li> <li>75 mm</li> <li>net weight</li> <li>fastening method</li> <li>35 mm DIN-rail mounting</li> <li>S7-300 rail mounting</li> <li>wall mounting</li> <li>wall mounting</li> <li>yes</li> <li>product features, product functions, product components / general</li> </ul>	<ul> <li>for vertical installation / during operation</li> </ul>	0 45 °C
<ul> <li>during transport</li> <li>relative humidity</li> <li>at 25 °C / without condensation / during operation / maximum</li> <li>protection class IP</li> <li>IP20</li> <li>design, dimensions and weights</li> <li>module format</li> <li>Compact module S7-1200 single width</li> <li>width</li> <li>a0 mm</li> <li>height</li> <li>depth</li> <li>75 mm</li> <li>net weight</li> <li>fastening method</li> <li>a35 mm DIN-rail mounting</li> <li>S7-300 rail mounting</li> <li>wall mounting</li> <li>Yes</li> <li>product features, product functions, product components / general</li> </ul>	<ul> <li>for horizontally arranged busbars / during operation</li> </ul>	0 55 °C
relative humidity  • at 25 °C / without condensation / during operation / maximum  protection class IP  IP20  design, dimensions and weights  module format  width  sidth  height  depth  net weight  fastening method  • 35 mm DIN-rail mounting  • S7-300 rail mounting  wall mounting  product features, product functions, product components / general	during storage	-40 +70 °C
at 25 °C / without condensation / during operation / maximum  protection class IP  IP20  design, dimensions and weights  module format  Compact module S7-1200 single width  width  30 mm  height  100 mm  depth  75 mm  net weight  fastening method  35 mm DIN-rail mounting  S7-300 rail mounting  wall mounting  Poduct features, product functions, product components / general	<ul> <li>during transport</li> </ul>	-40 +70 °C
maximum protection class IP  design, dimensions and weights  module format  Compact module S7-1200 single width  width 30 mm height 100 mm  depth 75 mm  net weight fastening method  • 35 mm DIN-rail mounting • S7-300 rail mounting • wall mounting  roduct features, product functions, product components / general	relative humidity	
module format Compact module S7-1200 single width  width 30 mm height 100 mm depth 75 mm net weight 6astening method • 35 mm DIN-rail mounting • S7-300 rail mounting • wall mounting  product features, product functions, product components / general		95 %
module format  width  30 mm  height  100 mm  depth  75 mm  net weight  6 35 mm DIN-rail mounting  • S7-300 rail mounting  • wall mounting  product features, product functions, product components / general	protection class IP	IP20
width  height  100 mm  depth  75 mm  net weight  6 35 mm DIN-rail mounting  • S7-300 rail mounting  • wall mounting  • wall mounting  product features, product functions, product components / general	design, dimensions and weights	
height 100 mm  depth 75 mm  net weight 0.115 kg  fastening method  • 35 mm DIN-rail mounting Yes  • S7-300 rail mounting No  • wall mounting Yes  product features, product functions, product components / general	module format	Compact module S7-1200 single width
depth 75 mm  net weight 0.115 kg  fastening method  • 35 mm DIN-rail mounting Yes  • S7-300 rail mounting No  • wall mounting Yes  product features, product functions, product components / general	width	30 mm
net weight  fastening method  • 35 mm DIN-rail mounting  • S7-300 rail mounting  • wall mounting  • wall mounting  Pyes  product features, product functions, product components / general	height	100 mm
fastening method  • 35 mm DIN-rail mounting  • S7-300 rail mounting  • wall mounting  • wall mounting  Product features, product functions, product components / general	depth	75 mm
35 mm DIN-rail mounting     S7-300 rail mounting     Wall mounting     wall mounting     Yes  product features, product functions, product components / general	net weight	0.115 kg
S7-300 rail mounting     No     wall mounting     Yes  product features, product functions, product components / general	fastening method	
wall mounting     Yes  product features, product functions, product components / general	• 35 mm DIN-rail mounting	Yes
product features, product functions, product components / general	• S7-300 rail mounting	No
	wall mounting	Yes
number of units	product features, product functions, product components / general	
	number of units	

• per CPU / maximum	3
performance data / PROFIBUS DP	
service / as DP slave	
DPV0	Yes
• DPV1	Yes
data volume	
of the address range of the inputs / as DP slave / total	240 byte
of the address range of the outputs / as DP slave / total	240 byte
performance data / telecontrol	2.0 2,10
protocol / is supported	
• TCP/IP	No
product functions / management, configuration, engineering	
configuration software	
• required	STEP 7 Basic/Professional
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
standards, specifications, approvals	
reference code	
<ul> <li>according to IEC 81346-2:2019</li> </ul>	KEC
certificate of suitability / CE marking	Yes
certificate of suitability / UKCA marking	Yes
certificate of suitability / KC approval	Yes
certificate of suitability / Regulatory Compliance Mark (RCM)	Yes
certificate of suitability / RoHS conformity	Yes
certificate of suitability / EAC approval	Yes
standards, specifications, approvals / hazardous environments	/ header
certificate of suitability / ATEX	Yes
certificate of suitability / IECEx	Yes
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
certificate of suitability / FM registration	Yes
standards, specifications, approvals / marine classification / header	
Marine classification association / American Bureau of Shipping Europe Ltd. (ABS)	Yes
Marine classification association / French marine classification society (BV)	Yes
Marine classification association / Det Norske Veritas (DNV)	Yes
Marine classification association / Lloyds Register of Shipping (LRS)	Yes
Marine classification association / Nippon Kaiji Kyokai (NK)	Yes
Marine classification association / Royal Institution of Naval Architects (RINA)	Yes
standards, specifications, approvals / Environmental Product De	eclaration
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	89.58 kg
during manufacturing	14.29 kg
during operation	75.11 kg
after end of life	0.18 kg
further information / internet links	
internet link	http://www.ndiadouto.com
to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
to web page: selection aid TIA Selection Tool     to website: Industrial communication	https://www.siemens.com/tstcloud
to web page: SigPortal	https://www.siemens.com/simatic-net
to web page: SiePortal      to website: Image database	https://sieportal.siemens.com/
to website: Image database     to website: CAx Download Manager	https://www.automation.siemens.com/bilddb https://siemens.com/cax
<ul> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemens.com
• to website. Industry Online Support	паралгарротанниал у энстнетв.сонт
•	Signature provides products and colutions with industrial subarcoourity functions
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#### Approvals / Certificates

#### **General Product Approval**



**Declaration of Con**formity







China RoHS

**General Product Approval** 

EMV

For use in hazardous locations





<u>KC</u>





<u>FM</u>

For use in hazardous locations

Maritime application

CCC-Ex









NK / Nippon Kaiji Ky-<u>okai</u>

Maritime application

Environment





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10/28/2025

