# **SIEMENS**

## Data sheet

### 6GK5524-8GR00-3AR2

Product type designation SCALANCE XR524-8C

SCALANCE XR524-8C; MANAGED IE SWITCH; LAYER 3 INTEGRATED; POWER SUPPLY 230V AC; 24 X 10/100/1000 MBIT/S RJ45; 8 X 100/1000 MBIT/S SFP; CONTAINS 8 COMBO PORTS; 24 PORTS CAN BE USED IN TOTAL; FAULT-SIGNAL CONTACT; SELECT/SET-BUTTON; PROFINET-IO DEVICE; REDUNDANCY FUNCTIONS; OFFICE FEATURES (RSTP, VLAN, IGMP,...); C-PLUG IN SCOPE OF SUPPLY



Transmission rate	
Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
Interfaces / for communication / integrated	
Number of electrical connections	
• for network components or terminal equipment	24
Number of 100 Mbit/s ST(BFOC) ports	
• for multimode	0
Number of electrical connections	
• for SFP	8
Number of combo ports / with RJ45 interface for optical plug-in transceiver	8
Interfaces / for communication / pluggable / maximu	ım
Number of electrical connections	
• for SFP	8
Interfaces / others	
Number of electrical connections	
• for operator console	1

• for signaling contact  • for power supply  • for redundant votage supply  1  Type of electrical connection  • for operator console  • for operator console  • for operator console  • for operator console  • for signaling contact  • for signaling contact  • for power supply  4-pole terminal block  • for power supply  4-pole terminal block  design of the removable storage  • C-P-LUG/KEY-P-LUG  Yes  Signal-Inputs/outputs  Operating vottage / of the signaling contacts  • at DC / Rated value  Operating current / of the signaling contacts  • at DC / maximum  0.1 A  Supply vottage, current consumption, power loss  Type of vottage supply / redundant power supply unit  Type of vottage supply / redundant power supply unit  Type of vottage supply / redundant power supply unit  Type of vottage supply / redundant power supply unit  Type of vottage supply / redundant power supply unit  Type of vottage of the supply vottage  • at AC / rated value  90 264 V  Product component / fusing at power supply input  Product component / fusing at power supply input  Supply vottage  • at AC / rated value  90 264 V  Product component / fusing at power supply vottage  • at AC / rated value  90 264 V  Product component / fusing at power supply input  90 264 V  Product component / fusing at power supply vottage  • at AC / rated value  90 264 V  Product component / fusing at power supply input  90 264 V  Product component / fusing at power supply input  90 264 V  Product component / fusing at power supply input  90 264 V  Product component / fusing at power supply input  90 264 V  Product component / fusing at power supply input  90 264 V  Product component / fusing at power supply input  90 264 V  Product component / fusing at power supply input  90 264 V  Product component / fusing at power supply input  90 264 V  Product component / fusing at power supply input  90 264 V  Product component / fusing at power supply input  90 264 V  Product component / fusing at power supply input  90 264 V	• for management purposes	1
• for power supply • for redundant voltage supply 1 Type of electrical connection • for operator console • for management purposes • for signaling contact • for signaling contact • for power supply design of the removable storage • C-PLUG/KEY-PLUG Product feature / hot-wappable interface modules  Signal-Inputs/outputs  Operating voltage / of the signaling contacts • at DC / Rated value  Operating current / of the signaling contacts • at DC / maximum  Type of voltage supply / redundant power supply unit Type of voltage / of the supply voltage • at AC • at AC • at AC / tade value  Product component / fusing at power supply input Pruse protection type / at input for supply voltage  • at AC • at AC / atted value  Product component / fusing at power supply input Pruse protection type / at input for supply voltage • at AC • at AC / atted value  • atter / a	• • •	1
• for redundant voltage supply Type of electrical connection • for operator console • for operator console • for signaling contact • for signaling contact • for power supply design of the removable storage • C-PLUGKEY-PLUG Product feature / hot-swappable interface modules  Signal-Inputs/outputs  Operating voltage / of the signaling contacts • at DC / Rated value Operating current / of the signaling contacts • at DC / maximum  On It A  Supply voltage, current consumption, power loss Type of voltage supply / redundant power supply unit Type of voltage / of the supply voltage • at AC / atad value  Operating current consumption, power loss Type of voltage supply / redundant power supply unit Type of voltage / of the supply voltage • at AC / atad value  Operating voltage / of the supply voltage  Supply voltage • at AC / 230 V • at AC / rated value  Product component / fusing at power supply input Yes  Tuse protection type / at input for supply voltage  Ocusing current / maximum  On A  Permitted ambient conditions  Ambient temperature • during operation • during storage • during transport • during storage • during transport • during transpor		1
Type of electrical connection  • for operator console • for management purposes • for signaling contact • for signaling contact • for signaling contact • for signaling contact • for power supply • d-pole terminal block  design of the removable storage • C-PLUGIKEY-PLUG Product feature / hot-swappable interface modules  Signal-inputs/outputs  Operating voltage / of the signaling contacts • at DC / Rated value  Operating current / of the signaling contacts • at DC / maximum  Supply voltage, current consumption, power loss  Type of voltage supply / redundant power supply unit  Type of voltage / of the supply voltage  • at AC / ated value  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  • at AC / rated value  Product component / maximum  0.6 A  Permitted ambient conditions  Ambient temperature • during operation • during storage • during transport  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Pesign, dimensions and weight  Design, dimensions and weight  Width  Width  Width  Width  RJ11 port  RJ45 port  4.40		1
• for management purposes     • for signaling contact     • for power supply     design of the removable storage     • C-PLUG/KEY-PLUG     Product feature / hot-swappable interface modules    Signal-Inputs/outputs		
• for management purposes • for signaling contact • for power supply design of the removable storage • C-PLUG/KEY-PLUG Product feature / hot-swappable interface modules  Signal-Inputs/outputs  Operating voltage / of the signaling contacts • at DC / Rated value Operating current / of the signaling contacts • at DC / Rated value Operating current / of the signaling contacts • at DC / maximum  Supply voltage, current consumption, power loss Type of voltage supply / redundant power supply unit Type of voltage supply / redundant power supply unit Type of voltage for the supply voltage • at AC • at AC / rated value  • at AC / rated value  Product component / fusing at power supply input Fuse protection type / at input for supply voltage Consumed current / maximum  One  Permitted ambient conditions  Ambient temperature • during storage • during transport  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Pessign, dimensions and weight  Design, dimensions and weight units / relating to 19-inch cabinet  Wridth  449 mm	• for operator console	RJ11 port
• for signaling contact • for power supply  design of the removable storage • C-PLUG/KEY-PLUG Product feature / hot-swappable interface modules  • at DC / Rated value  Operating voltage / of the signaling contacts • at DC / Rated value  Operating current / of the signaling contacts • at DC / Rated value  Operating current / of the signaling contacts • at DC / maximum  O.1 A  Supply voltage, current consumption, power loss  Type of voltage supply / redundant power supply unit  Type of voltage yof he supply voltage  Osuply voltage • at AC • at AC / rated value  Product component / fusing at power supply input Fuse protection type / at input for supply voltage  Oconsumed current / maximum  O.6 A  Permitted ambient conditions  Ambient temperature  • during operation • during storage • during transport  Alto "C - 40 +85 °C  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight Design  Number of modular height units / relating to 19-inch cabinet  Writth  Ves  10		RJ45 port
• for power supply     design of the removable storage     • C-PLUGKEY-PLUG     Product feature / hot-swappable interface modules  Operating voltage / of the signaling contacts     • at DC / Rated value     Operating current / of the signaling contacts     • at DC / Rated value     Operating current consumption, power loss  Type of voltage supply / redundant power supply unit     Type of voltage / of the supply voltage     • at AC     • at AC / rated value     • at AC     • at AC / rated value     • at AC     • at AC / rated value     Operating current consumption, power loss  Type of voltage supply / redundant power supply unit     Type of voltage supply / redundant power supply unit     Type of voltage / of the supply voltage     • at AC     • at AC / rated value     Product component / fusing at power supply input     Fuse protection type / at input for supply voltage     Onsumed current / maximum     O.6 A  Permitted ambient conditions  Ambient temperature     • during operation     • during storage     • during storage     • during transport     Ac - 40 +85 °C  Relative humidity     • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight  Design, dimensions and weight  Design, dimensions and weight  Design, dimensions and weight  Width		2-pole terminal block
design of the removable storage  • C-PLUG/KEY-PLUG  Product feature / hot-swappable interface modules  Signal-Inputs/outputs  Operating voltage / of the signaling contacts  • at DC / Rated value  Operating current / of the signaling contacts  • at DC / maximum  O.1 A  Supply voltage, current consumption, power loss  Type of voltage supply / redundant power supply unit  Type of voltage / of the supply voltage  • at AC  Supply voltage  • at AC / rated value  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  Consumed current / maximum  O.6 A  Permitted ambient conditions  Ambient temperature  • during operation  • during grange  • during transport  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight  Design  Ves  Ves  Yes  24 V  O.1 A  No  No  No  19" rack  Ves  Ves  Signal-Inputs/outputs/ Ves  AC  Ves  Ves  25 +60 °C  -40 +85 °C  -4		
Product feature / hot-swappable interface modules  Signal-Inputs/outputs  Operating voltage / of the signaling contacts  • at DC / Rated value  Operating current / of the signaling contacts  • at DC / Rated value  Operating current consumption, power loss  Type of voltage supply / redundant power supply unit  Type of voltage supply / redundant power supply unit  Type of voltage supply / redundant power supply unit  Type of voltage / of the supply voltage  Supply voltage  • at AC  • at AC / rated value  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  2.15 A / 250 V  Consumed current / maximum  0.6 A  Permitted ambient conditions  Ambient temperature  • during operation  • during storage  • during transport  • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight  Design  Number of modular height units / relating to 19-inch cabinet  Width  Vidth		
Signal-Inputs/outputs Operating voltage / of the signaling contacts  • at DC / Rated value  Operating current / of the signaling contacts  • at DC / maximum  0.1 A  Supply voltage, current consumption, power loss Type of voltage supply / redundant power supply unit Type of voltage / of the supply voltage  • at AC  Supply voltage  • at AC / rated value  Product component / fusing at power supply input Prose protection type / at input for supply voltage  Consumed current / maximum  O.6 A  Permitted ambient conditions  Ambient temperature  • during operation • during storage • during transport  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight  Design  Number of modular height units / relating to 19-inch cabinet  Width		Yes
Operating voltage / of the signaling contacts	Product feature / hot-swappable interface modules	Yes
Operating voltage / of the signaling contacts	Signal-Innuts/outnuts	
at DC / Rated value  Operating current / of the signaling contacts  at DC / maximum  O.1 A  Supply voltage, current consumption, power loss Type of voltage supply / redundant power supply unit Type of voltage / of the supply voltage  AC  Supply voltage  at AC  at AC / rated value  Product component / fusing at power supply input Yes  Fuse protection type / at input for supply voltage  A.15 A / 250 V  Consumed current / maximum  O.6 A  Permitted ambient conditions  Ambient temperature  during operation  during storage  during transport  Ad 2.5 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight  Design  Number of modular height units / relating to 19-inch cabinet  Width		
• at DC / maximum  Supply voltage, current consumption, power loss  Type of voltage supply / redundant power supply unit  Type of voltage / of the supply voltage  • at AC  • at AC / rated value  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  • at moderate of the supply voltage  Consumed current / maximum  O.6 A  Permitted ambient conditions  Ambient temperature  • during operation  • during storage  • during transport  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design dimensions and weight  Number of modular height units / relating to 19-inch cabinet  Width  449 mm		24 V
Supply voltage, current consumption, power loss  Type of voltage supply / redundant power supply unit  Type of voltage / of the supply voltage  • at AC  • at AC  • at AC / rated value  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  • at AC / asted value  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  Consumed current / maximum  0.6 A   Permitted ambient conditions  Ambient temperature  • during operation  • during storage  • during transport  Ad +85 °C  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight  Design  Number of modular height units / relating to 19-inch cabinet  Width	Operating current / of the signaling contacts	
Type of voltage supply / redundant power supply unit  Type of voltage / of the supply voltage  • at AC  • at AC / rated value  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  • at AC / raximum  O.6 A  Permitted ambient conditions  Ambient temperature  • during operation  • during storage  • during transport  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight  No  230 V  230 V  240 264 V  Product component / fusing at power supply input  Yes  3.15 A / 250 V  Consumed current / maximum  0.6 A  Permitted ambient conditions  Ambient temperature  • during operation  • 40 +85 °C  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight  Design  19" rack  Number of modular height units / relating to 19-inch cabinet  Width  449 mm	• at DC / maximum	0.1 A
Type of voltage supply / redundant power supply unit  Type of voltage / of the supply voltage  • at AC  • at AC / rated value  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  • at AC / consumed current / maximum  Ambient temperature  • during operation • during storage • during transport  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight  No  230 V  230 V  230 V  240 264 V  Product component / fusing at power supply input  Yes  3.15 A / 250 V  Consumed current / maximum  0.6 A  Permitted ambient conditions  Ambient temperature  • during operation  -25 +60 °C  -40 +85 °C  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight  Design  19" rack  Number of modular height units / relating to 19-inch cabinet  Width  449 mm	Sunnly voltage current consumption nower loss	
Type of voltage / of the supply voltage  Supply voltage  at AC  at AC  at AC / rated value  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  Consumed current / maximum  0.6 A  Permitted ambient conditions  Ambient temperature  during operation  during storage  during storage  during transport  Relative humidity  at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight  Design  Number of modular height units / relating to 19-inch cabinet  Width  449 mm		No
Supply voltage  • at AC  • at AC / rated value  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  Consumed current / maximum  0.6 A  Permitted ambient conditions  Ambient temperature  • during operation  • during storage  • during storage  • during transport  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight  Design  Number of modular height units / relating to 19-inch cabinet  Width  449 mm		AC
at AC / rated value  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  Consumed current / maximum  0.6 A  Permitted ambient conditions  Ambient temperature  at during operation  during storage  during transport  Relative humidity  at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight  Design  Number of modular height units / relating to 19-inch cabinet  Width  449 mm	Supply voltage	
Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  3.15 A / 250 V  Consumed current / maximum  0.6 A  Permitted ambient conditions  Ambient temperature  • during operation  • during storage  • during transport  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight  Design  Number of modular height units / relating to 19-inch cabinet  Width  449 mm	• at AC	230 V
Fuse protection type / at input for supply voltage  Consumed current / maximum  0.6 A  Permitted ambient conditions  Ambient temperature  • during operation • during storage • during transport  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Pesign  Design, dimensions and weight  Design  Number of modular height units / relating to 19-inch cabinet  Width  449 mm	• at AC / rated value	90 264 V
Consumed current / maximum  O.6 A  Permitted ambient conditions  Ambient temperature  • during operation • during storage • during transport  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight  Design  Number of modular height units / relating to 19-inch cabinet  Width  O.6 A  O.6 A  O.6 A  19" rack  19" rack  19" rack  19" rack  449 mm	Product component / fusing at power supply input	Yes
Permitted ambient conditions  Ambient temperature  • during operation • during storage • during transport  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design dimensions and weight  Design Number of modular height units / relating to 19-inch cabinet  Width  449 mm	Fuse protection type / at input for supply voltage	3.15 A / 250 V
Ambient temperature  • during operation  • during storage  • during transport  -40 +85 °C  • during transport  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight  Design  Number of modular height units / relating to 19-inch cabinet  Width  449 mm	Consumed current / maximum	0.6 A
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>during transport</li> <li>40 +85 °C</li> <li>during transport</li> <li>at 25 °C / without condensation / during operation / maximum</li> <li>Protection class IP</li> <li>Design, dimensions and weight</li> <li>Design</li> <li>19" rack</li> <li>Number of modular height units / relating to 19-inch cabinet</li> <li>Width</li> <li>449 mm</li> </ul>	Permitted ambient conditions	
during storage     during transport     during     during transport     during	Ambient temperature	
during transport      Relative humidity         • at 25 °C / without condensation / during operation / maximum  Protection class IP    Pesign	during operation	-25 +60 °C
Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight  Design  19" rack  Number of modular height units / relating to 19-inch cabinet  Width  449 mm	during storage	-40 +85 °C
at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight  Design  Number of modular height units / relating to 19-inch cabinet  Width  449 mm	during transport	-40 +85 °C
operation / maximum  Protection class IP  IP20  Design, dimensions and weight  Design  19" rack  Number of modular height units / relating to 19-inch cabinet  Width  449 mm	Relative humidity	
Protection class IP  Design, dimensions and weight  Design  19" rack  Number of modular height units / relating to 19-inch cabinet  Width  449 mm	• at 25 °C / without condensation / during	95 %
Design, dimensions and weight  Design 19" rack  Number of modular height units / relating to 19-inch cabinet  Width 449 mm		
Design 19" rack  Number of modular height units / relating to 19-inch cabinet  Width 449 mm	Protection class IP	IP20
Number of modular height units / relating to 19-inch cabinet  Width 449 mm	Design, dimensions and weight	
cabinet Width 449 mm		19" rack
		1
Height 44 mm	Width	449 mm
	Height	44 mm

Depth	305 mm
Net weight	4.2 kg
Mounting type	
• 19-inch installation	Yes
• 35 mm DIN rail mounting	No
• wall mounting	No
• S7-300 rail mounting	No
• S7-1500 rail mounting	No
Type of cable outlet	Cable outlet at front

## Product properties, functions, components / general

Cascading in cases of star topology any (depending only on signal propagation time)

Product functions / management, configuration	
Product function	
• CLI	Yes
<ul><li>web-based management</li></ul>	Yes
MIB support	Yes
<ul> <li>TRAPs via email</li> </ul>	Yes
<ul> <li>Configuration with STEP 7</li> </ul>	Yes
• RMON	Yes
Port mirroring	Yes
<ul> <li>multiport mirroring</li> </ul>	Yes
• CoS	Yes
<ul> <li>PROFINET IO diagnosis</li> </ul>	Yes
• switch-managed	Yes
Telegram length / for Ethernet / maximum	9216 byte
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
<ul><li>IGMP (snooping/querier)</li></ul>	Yes
Identification & maintenance function	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
• I&M1 – higher-level designation/location	Yes
designation	
Protocol / is supported	

• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes

Product functions / Diagnosis	
Product function	
Port diagnostics	Yes
Statistics Packet Size	Yes
<ul> <li>Statistics packet type</li> </ul>	Yes
• Error statistics	Yes
• SysLog	Yes

Product functions / VLAN	
Product function	
<ul> <li>VLAN - port based</li> </ul>	Yes
<ul> <li>VLAN - protocol-based</li> </ul>	Yes
VLAN - IP-based	Yes
<ul> <li>VLAN dynamic</li> </ul>	Yes
Number of VLANs / maximum	255
Number of VLANs - dynamic / maximum	255
Protocol / is supported / GVRP	Yes

Product functions / DHCP	
Product function	
DHCP client	Yes
DHCP Option 82	Yes
DHCP Option 66	Yes
DHCP Option 67	Yes

Product functions / Routing	
Service / Routing / Note	IP routing integrated, IPv6 available soon
Product function	
<ul> <li>Static IP routing</li> </ul>	Yes
<ul> <li>Static IP routing IPv6</li> </ul>	No
<ul><li>dynamic IP routing</li></ul>	Yes
<ul><li>dynamic IP routing IPv6</li></ul>	No
Protocol / is supported	
• RIPv2	Yes
<ul> <li>RIPnG for IPv6</li> </ul>	No
• OSPFv2	Yes
OSPFv3 for IPv6	No
• VRRP	Yes
<ul> <li>VRRP for IPv6</li> </ul>	No

## Product functions / Redundancy

Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
IEEE 1588 available soon
available soon
EN 61000-6-4 (Class A)
EN 61000-6-4 (Class A) EN 61000-6-2
EN 61000-6-4 (Class A)

C-TickE1 approvalNo

E1 approvalKC approvalYes

KC approval

#### Further Information / Internet Links

#### Internet-Link

• to website: Selector SIMATIC NET

**SELECTION TOOL** 

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

### Security information

Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Thirdparty products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)

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