# IKS-G6524A Series

## 24G-port Layer 2 full Gigabit managed Ethernet switches

#### **Features and Benefits**

- 24 Gigabit Ethernet ports
- Up to 24 optical fiber connections (SFP slots)
- Fanless, -40 to 75°C operating temperature range (T models)
- Turbo Ring and Turbo Chain (recovery time < 20 ms @ 250 switches)<sup>1</sup>, and STP/RSTP/MSTP for network redundancy
- Isolated redundant power inputs with universal 110/220 VAC power supply range
- · Supports MXstudio for easy, visualized industrial network management
- V-ON<sup>™</sup> ensures millisecond-level multicast data and video network recovery

Certifications **C E FC EN 50121-4** 

## Introduction

Process automation and transportation automation applications combine data, voice, and video, and consequently require high performance and high reliability. The IKS-G6524A Series is equipped with 24 Gigabit Ethernet ports.

The IKS-G6524A's full Gigabit capability increases bandwidth to provide high performance and the ability to quickly transfer large amounts of video, voice, and data across a network. The switches support the Turbo Ring, Turbo Chain, and RSTP/STP redundancy technologies, and are fanless and come with an isolated redundant power supply to increase system reliability and the availability of your network backbone.

#### Additional Features and Benefits

- · Command line interface (CLI) for quickly configuring major managed functions
- · Supports advanced VLAN capability with Q-in-Q tagging
- DHCP Option 82 for IP address assignment with different policies
- · Supports EtherNet/IP, PROFINET, and Modbus TCP protocols for device management and monitoring
- IEEE 802.1Q VLAN and GVRP protocol to ease network planning
- QoS (IEEE 802.1p/1Q and TOS/DiffServ) to increase determinism
- · Digital inputs for integrating sensors and alarms with IP networks
- · Redundant, dual AC power inputs

**Specifications** Input/Output Interface

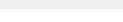
· Port Trunking for optimum bandwidth utilization

- TACACS+, SNMPv3, IEEE 802.1X, HTTPS, and SSH to enhance network security
- SNMPv1/v2c/v3 for different levels of network management
- RMON for proactive and efficient network monitoring
- · Bandwidth management to prevent unpredictable network status
- · Lock port function for blocking unauthorized access based on MAC address
- · Automatic warning by exception through email and relay output

#### Alarm Contact Channels Relay output with current carrying capacity of 2 A @ 30 VDC **Digital Inputs** +13 to +30 V for state 1 -30 to +1 V for state 0 Max. input current: 8 mA Ethernet Interface 10/100/1000BaseT(X) Ports (RJ45 connector) IKS-G6524A-4GTXSFP-HV-HV Series: 20 IKS-G6524A-8GSFP-4GTXSFP-HV-HV Series: 12 100/1000BaseSFP Ports IKS-G6524A-8GSFP-4GTXSFP-HV-HV Series: 8 IKS-G6524A-20GSFP-4GTXSFP-HV-HV Series: 20

If the port link speed is 1 Gigabit or higher, the recovery time is < 50 ms.





- · Port mirroring for online debugging
- - · IGMP snooping and GMRP for filtering multicast traffic

Combo Ports (10/100/1000BaseT(X) or 100/ 1000BaseSFP+)	4
Standards	IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1p for Class of Service IEEE 802.1Q for VLAN Tagging IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1X for authentication IEEE 802.3 for 10BaseT IEEE 802.3a for 100BaseT(X) IEEE 802.3u for 1000BaseT(X) IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3x for flow control IEEE 802.3z for 1000BaseSX/LX/LHX/ZX
Ethernet Software Features	
Management	ARP Back Pressure Flow Control BOOTP DDM DHCP Option 66/67/82 DHCP Server/Client IPv4/IPv6 LLDP Port Mirror RMON SCP SNMP Inform SNMPv1/v2c/v3 Syslog Telnet TFTP SMTP RARP Flow control
Filter	802.1Q BPDU Filter BPDU Guard GMRP GVRP IGMP v1/v2/v3
Redundancy Protocols	Link Aggregation MRP MSTP RSTP Turbo Chain Turbo Ring v1/v2 V-ON
Security	Access control list Broadcast storm protection HTTPS/SSL MAB authentication Sticky MAC NTP authentication Port Lock RADIUS SSH TACACS+
Time Management	NTP Server/Client SNTP



NIBBitspanse Bitspanse servingSwitch PropertiesDrAM2008Flash1608Flash608Corouge 1, 2, 9, 9Pash O2008Pash O2008Suitch Properties2008Corouge 1, 2, 9, 92008Pash O2008Pash O2008Suitch Properties2008Suitch Properties2008Suitch Properties2008Suitch Properties2008Suitch Properties2008Suitch Properties2008Pash Buffer Size2008Van Da Rage2018Van Da Rage2018 <th>Industrial Protocols</th> <th>EtherNet/IP Modbus TCP PROFINET</th>	Industrial Protocols	EtherNet/IP Modbus TCP PROFINET
DRAM128 MBFlash16 MBIGMP Groups4096Junbo Frame Size9.6 KBMAC Table Size16 KMac Table Size256Packet Buffer Size12 MbitsVAN ID Range12 MbitsVLN ID Range10 It 0404Prointy Queues8Console PortUSB Type ASorage PortUSB Stype APower ParametersUSB Stype APower Parameters11 to 220 VAC Redundant dual inputsOperating Voltage6s to 264 VACPorter QueuesSupportedPorter PortectionSupportedPorter PortectionSupportedPorter PortectionSupportedPorter PortectionSupportedPhysical CharacteristicsPosePhysical CharacteristicsPisoProtectionIP00PinensionsMox 44x 386.9 mm (17.32 x 1.78 x 15.23 in)Pinet MangeGio (1.25 b)	ΜΙΒ	Ethernet-like MIB MIB-II P-BRIDGE MIB Q-BRIDGE MIB RMON MIB Groups 1, 2, 3, 9
Flash16 MBIGMP Groups4096Jumbo Frame Size96 KBMAC Table Size16 KMAC Table Size16 KMax. No. of VLANs256Packet Buffer Size12 MbitsVLAN ID Range10 10 4094Vority Queues8Storage PortUSB Type AStorage PortUSB Type AStorage PortUSB Spe APower Parameters10 to 220 VAC Redundant dual inputsPourtologaStorage Action Science Type Science	Switch Properties	
IGMP Groups     4996       Jumbo Frame Size     6.6 KB       MaC Table Size     16 K       Max. No. of VLANs     256       Packet Buffer Size     12 Mbits       VLAN ID Range     12 Mbits       VLAN ID Range     10 It 0 4094       VIS Interface     3       USB Interface     USB Type A       Storage Port     USB Type A       Storage Port     USB-serial console (Type B connector)       Power Parameters     10 to 220 VAC Redundant dual inputs       Operating Voltage     6 to 264 VAC       Reverse Polarity Protection     Suported       Input Corrent     0.670.38 A 0 110/220 VAC       Physical Characteristics     10 to 240 VAC       Physical Characteristics     10 Fig.0       IP Pating     Pio0       IP mensions     440 x 44 x 386.9 mn (17.32 x 1.73 x 15.23 in)	DRAM	128 MB
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MAC Table Size     16 K       Max. No. of VLANs     266       Packet Buffer Size     12 Mbits       VLAN ID Range     VD 10 4094       Priority Queues     8       USB Interface     Storage Port       Storage Port     USB Stype A       Console Port     USB-serial console (Type B connector)       Power Parameters     VSB-serial console (Type B connector)       Input Voltage     Sto 264 VAC       Operating Voltage     Sto 264 VAC       Power Parameters     Suported       Input Voltage     Sto 264 VAC       Reverse Polarity Protection     Suported       Input Current     Suported       Input Current     Po/sical Characteristics       IPating     IPa       Intensions     40x 44x 386.9 mm (17.32x 1.73x 15.23 in)	IGMP Groups	4096
Max. No. of VLANs266Max. No. of VLANs266Packet Buffer Size12 MbitsVLAN ID RangeVD1 to 4094Priority Queues8USB InterfaceUS Type AStorage PortUSB Type ASorage PortUSB Stype A connectoryConsole PortUSB Sterial console (Type B connectory)Power ParametersU10 to 220 VAC Redundant dual inputsOperating VoltageSto 264 VACOperating VoltageSuportedReverse Polarity ProtectionSuportedInput Current0x070,38 A @ 110/220 VACPhysical CharacteristicsIP3IPatingIP3Intensions40x 44x 386.9 mm (17.32 x 1.73 x 15.23 in)User Source Sourc	Jumbo Frame Size	9.6 KB
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Priority Queues8Priority Queues8USB InterfaceUSB Type ASerial InterfaceUSB-serial console (Type B connector)Console PortUSB-serial console (Type B connector)Power ParametersI) to 220 VAC Redundant dual inputsOperating Voltage85 0 264 VACOverload Current ProtectionSuportedReverse Polarity ProtectionSuportedInput Current0xf0.38 A 0 110/220 VACPhysical CharacteristicsF20IP RatingF20Dinensions40x 44 x386.9 mm (1.32 x 1.73 x 15.23 in)WeightSing (1.25 in)	Packet Buffer Size	12 Mbits
USB Interface     Storage Port     USB Type A       Serial Interface     Sesial console (Type B connector)       Console Port     USB-serial console (Type B connector)       Power Parameters     Ito to 220 VAC Redundant dual inputs       Operating Voltage     Sto 264 VAC       Operating Voltage     Sto 264 VAC       Reverse Polarity Protection     Supported       Input Current     Oprotad Current Protection       Input Current     Supported       Physical Characteristics     IP30       Dimensions     40x 44x 386.9 mm (17.32x 1.73x 15.23 in)       Weight     Diog (11.25 lb)	VLAN ID Range	VID 1 to 4094
Storage PortUSB Type ASerial InterfaceConsole PortUSB-serial console (Type B connector)Power ParametersInput VoltageI10 to 220 VAC Redundant dual inputsOperating VoltageSto 264 VACOverload Current ProtectionSupportedReverse Polarity ProtectionSupportedInput Current067/0.38 A @ 110/220 VACPhysical CharacteristicsIP30Dimensions440 x 44 x 366.9 mm (17.32 x 1.73 x 15.23 in)WeightStol g (1.25 lb)	Priority Queues	8
Serial Interface   USB-serial console (Type B connector)     Fower Parameters   I) to 220 VAC Redundant dual inputs     Input Voltage   10 to 220 VAC Redundant dual inputs     Operating Voltage   85 to 264 VAC     Overload Current Protection   Supported     Input Current   Supported     Physical Characteristics   Supported     IP Rating   P30     Dimensions   40 x 44 x 386.9 mm (17.32 x 1.73 x 15.23 in)     Weight   Supo gl (1.25 lb)	USB Interface	
Console PortUSB-serial console (Type B connector)Power ParametersInput Voltage110 to 220 VAC Redundant dual inputsOperating Voltage85 to 264 VACOverload Current ProtectionSuportedReverse Polarity ProtectionSuportedInput Current0.67/0.38 A @ 110/220 VACPhysical CharacteristicsIPatingIP RatingIP30Dimensions440 x 44 x 386.9 mm (17.32 x 1.73 x 15.23 in)Weight5100 g (1.25 lb)	Storage Port	USB Type A
Power Parameters     Input Voltage   10 to 220 VAC Redundant dual inputs     Operating Voltage   85 to 264 VAC     Overload Current Protection   Supported     Reverse Polarity Protection   Supported     Input Current   0.67/0.38 A @ 110/220 VAC     Physical Characteristics   IP30     Dimensions   440 x 44 x 386.9 mm (17.32 x 1.73 x 15.23 in)     Weight   5100 g (11.25 lb)	Serial Interface	
Input Voltage110 to 220 VAC Redundant dual inputsOperating Voltage85 to 264 VACOverload Current ProtectionSupportedReverse Polarity ProtectionSupportedInput Current0.67/0.38 A @ 110/220 VACPhysical CharacteristicsIP30Dimensions440 x 44 x 386.9 mm (17.32 x 1.73 x 15.23 in)Weight5100 g (11.25 lb)	Console Port	USB-serial console (Type B connector)
Redundant dual inputsOperating Voltage\$5 to 264 VACOverload Current ProtectionSuportedReverse Polarity Protection\$0portedInput Current0.67/0.38 A @ 110/220 VACPhysical CharacteristicsIPatingIP RatingIP30Dimensions\$100 g (11.25 Lb)	Power Parameters	
NoteNumber of the second s	Input Voltage	
Reverse Polarity Protection Supported   Input Current 0.67/0.38 A @ 110/220 VAC   Physical Characteristics IPRating   IP Rating IP30   Dimensions 440 x 44 x 386.9 mm (17.32 x 1.73 x 15.23 in)   Weight 5100 g (11.25 lb)	Operating Voltage	85 to 264 VAC
Input Current   0.67/0.38 A @ 110/220 VAC     Physical Characteristics   IP Rating     IP Rating   IP30     Dimensions   440 x 44 x 386.9 mm (17.32 x 1.73 x 15.23 in)     Weight   5100 g (11.25 lb)	Overload Current Protection	Supported
Physical Characteristics   IP Rating   Dimensions   Weight	Reverse Polarity Protection	Supported
IP RatingIP30Dimensions440 x 44 x 386.9 mm (17.32 x 1.73 x 15.23 in)Weight5100 g (11.25 lb)	Input Current	0.67/0.38 A @ 110/220 VAC
Dimensions     440 x 44 x 386.9 mm (17.32 x 1.73 x 15.23 in)       Weight     5100 g (11.25 lb)	Physical Characteristics	
Weight 5100 g (11.25 lb)	IP Rating	IP30
	Dimensions	440 x 44 x 386.9 mm (17.32 x 1.73 x 15.23 in)
Installation Rack mounting	Weight	5100 g (11.25 lb)
	Installation	Rack mounting



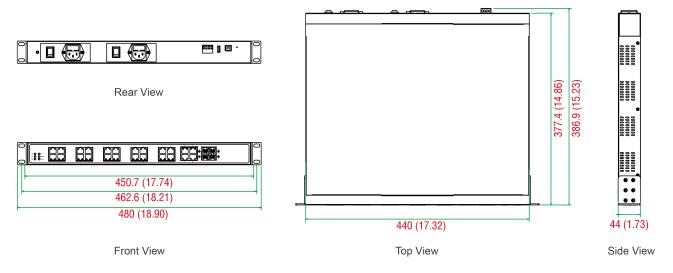
### **Environmental Limits**

Environmental Limits	
Operating Temperature	Standard Models: -10 to 60°C (14 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)
Storage Temperature (package included)	-40 to 75°C (-40 to 167°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Standards and Certifications	
Safety	EN 60950-1 UL 60950-1
EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Railway	EN 50121-4
Freefall	IEC 60068-2-32
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6
MTBF	
Time	IKS-G6524A-4GTXSFP-HV-HV Series: 514,894 hrs IKS-G6524A-8GSFP-4GTXSFP-HV-HV Series: 491,823 hrs IKS-G6524A-20GSFP-4GTXSFP-HV-HV Series: 460,854 hrs
Standards	Telcordia (Bellcore), GB
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x IKS-G6524A Series switch
Cable	1 x USB type A male to USB type B male
Installation Kit	2 x rack-mounting ear 8 x cap, plastic, for SFP slot (IKS-G6524A-4GTXSFP-HV-HV Series) 16 x cap, plastic, for SFP slot (IKS-G6524A-8GSFP-4GTXSFP-HV-HV Series) 28 x cap, plastic, for SFP slot (IKS-G6524A-20GSFP-4GTXSFP-HV-HV Series)
Power Supply	1 x power cord, EU type 1 x power cord, US type
Documentation	1 x quick installation guide 1 x warranty card
Note	SFP modules need to be purchased separately for use with this product.



## **Dimensions**

Unit: mm (inch)



## **Ordering Information**

Model Name	Layer	Combo Ports 10/100/1000BaseT(X) or 100/1000BaseSFP+	100/1000Base SFP Slots	10/100/1000BaseT(X) Ports RJ45 Connector	Operating Temp.
IKS-G6524A-4GTXSFP-HV- HV	2	4	-	20	-10 to 60°C
IKS-G6524A-8GSFP- 4GTXSFP-HV-HV	2	4	8	12	-10 to 60°C
IKS-G6524A-20GSFP- 4GTXSFP-HV-HV	2	4	20	-	-10 to 60°C
IKS-G6524A-4GTXSFP-HV- HV-T	2	4	-	20	-40 to 75°C
IKS-G6524A-8GSFP- 4GTXSFP-HV-HV-T	2	4	8	12	-40 to 75°C
IKS-G6524A-20GSFP- 4GTXSFP-HV-HV-T	2	4	20	-	-40 to 75°C

## Accessories (sold separately)

Storage Kits

ABC-02-USB	Configuration backup and restoration tool, firmware upgrade, and log file storage tool for managed Ethernet switches and routers, 0 to 60°C operating temperature
SFP Modules	
SFP-1FELLC-T	SFP module with 1 100Base single-mode with LC connector for 80 km transmission, -40 to 85°C operating temperature
SFP-1FEMLC-T	SFP module with 1 100Base multi-mode, LC connector for $2/4$ km transmission, -40 to $85^{\circ}$ C operating temperature
SFP-1FESLC-T	SFP module with 1 100Base single-mode with LC connector for 40 km transmission, -40 to $85^{\circ}$ C operating temperature
SFP-1G10ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G10ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G10BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature



SFP-1G10BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1G20ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G20ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G20BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G20BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1G40ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G40ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G40BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G40BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1GEZXLC	SFP module with 1 1000BaseEZX port with LC connector for 110 km transmission, 0 to 60°C operating temperature
SFP-1GEZXLC-120	SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, 0 to 60°C operating temperature
SFP-1GLHLC	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, 0 to 60°C operating temperature
SFP-1GLHLC-T	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature
SFP-1GLHXLC	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, 0 to 60°C operating temperature
SFP-1GLHXLC-T	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature
SFP-1GLSXLC	SFP module with 1 1000BaseLSX port with LC connector for $1 \text{ km}/2 \text{ km}$ transmission, 0 to $60^{\circ}\text{C}$ operating temperature
SFP-1GLSXLC-T	SFP module with 1 1000BaseLSX port with LC connector for $1 \text{ km}/2 \text{ km}$ transmission, -40 to $85^{\circ}\text{C}$ operating temperature
SFP-1GLXLC	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, 0 to 60°C operating temperature
SFP-1GLXLC-T	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, -40 to $85^{\circ}$ C operating temperature
SFP-1GSXLC	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, 0 to $60^{\circ}$ C operating temperature
SFP-1GSXLC-T	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, -40 to $85^{\circ}$ C operating temperature
SFP-1GZXLC	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, 0 to 60°C operating temperature
SFP-1GZXLC-T	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature
SFP-1GTXRJ45-T	SFP module with 1 1000BaseT port with RJ45 connector for 100 m transmission, -40 to 75°C operating temperature
Power Cords	
PWC-C7AU-2B-183	Power cord with Australian (AU) plug, 2.5A/250V, 1.83 m
PWC-C13AU-3B-183	Power cord with Australian (AU) plug, 1.83 m
PWC-C7UK-2B-183	Power cord with United Kingdom (UK) plug, 2.5A/250V, 1.83 m
PWC-C13US-3B-183	Power cord with United States (US) plug, 1.83 m



PWC-C7US-2B-183	Power cord with United States (US) plug, 10A/125V, 1.83 m
PWC-C13UK-3B-183	Power cord with United Kingdom (UK) plug, 1.83 m
PWC-C13CN-3B-183	Power cord with three-prong China (CN) plug, 1.83 m
PWC-C13EU-3B-183	Power cord with Continental Europe (EU) plug, 1.83 m
PWC-C7EU-2B-183	Power cord with Continental Europe (EU) plug, 2.5A/250V, 1.83 m
Software	
MXview-50	Industrial network management software with a license for 50 nodes (by IP address)
MXview-100	Industrial network management software with a license for 100 nodes (by IP address)
MXview-250	Industrial network management software with a license for 250 nodes (by IP address)
MXview-500	Industrial network management software with a license for 500 nodes (by IP address)
MXview-1000	Industrial network management software with a license for 1000 nodes (by IP address)
MXview-2000	Industrial network management software with a license for 2000 nodes (by IP address)
MXview Upgrade-50	License expansion of MXview industrial network management software by 50 nodes (by IP address)

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