

ICS-G7526Aシリーズ

24G+2 10GbEポートレイヤー2フルギガビットマネージド・イーサネット・スイッチ



機能とメリット

- 24のギガビットイーサネットポートと最大2つの10Gイーサネットポート
- 最大26の光ファイバ接続（SFPスロット）
- ファンなし、-40～75°Cの動作温度範囲（Tモデル）
- Turbo RingおよびTurbo Chain（リカバリ時間はスイッチ250台で20ミリ秒未満）をサポートし、STP/RSTP/MSTPでネットワーク冗長性を実現
- ユニバーサル110/220 VAC電力範囲の絶縁冗長電源
- 簡単に視覚化された産業用ネットワーク管理を行うためのMXstudioに対応
- V-ON™により、ミリ秒レベルのマルチキャストデータとビデオネットワークの回復を確実に実現

認証



製品紹介

プロセスオートメーションやトランスポートオートメーションの用途では、データ、音声、動画を組み合わせるため、高いパフォーマンスと高い信頼性が求められます。ICS-G7526Aシリーズフルギガビットバックボーンスイッチは、24のギガビットイーサネットポートと最大2つの10Gイーサネットポートを完備することで、大規模な産業用ネットワークに最適なソリューションとなっています。

ICS-G7526Aのフルギガビットの機能により、帯域幅が向上し、高いパフォーマンスを確保し、大量の動画、音声、データをネットワークをまたがってすばやく転送する機能を実現します。このファンのないスイッチは、Turbo Ring、Turbo Chain、RSTP/STPの冗長性技術をサポートし、絶縁冗長電源を完備していて、これによりネットワークバックボーンシステムの信頼性と可用性を向上します。

その他の機能とメリット

- 主なマネージド機能をすばやく設定するためのコマンドラインインターフェース（CLI）
- 各ポリシーに応じてIPアドレスを割り当てるDHCP Option 82
- デバイスの管理および監視用のEtherNet/IP、PROFINET、およびModbus TCPプロトコルをサポート
- マルチキャストトラフィックをフィルタリングするIGMPスヌーピングおよびGMRP
- ネットワーク計画を容易にするIEEE 802.1Q VLANとGVRPのプロトコル
- センサーとアラームをIPネットワークと統合するためのデジタル入力
- 冗長なデュアルAC電源
- メールとリレー出力を通じた例外検出による自動警告
- QoS（IEEE 802.1p/1QおよびTOS/DiffServ）
- 最適な帯域幅利用のためのポートランキング
- TACACS+、SNMPv3、IEEE 802.1x、HTTPS、およびSSHで、ネットワークセキュリティを強化
- 異なるレベルのネットワーク管理を実現するSNMPv1/v2c/v3
- プロアクティブで効率の高いネットワーク監視のためのRMON
- 不正アクセスをブロックするためのMACアドレスによるポートロック機能
- オンラインデバッグ用のポートミラーリング
- 冗長なデュアルAC電源

仕様

Ethernet Interface

| | |
|--|--|
| 10/100/1000BaseT(X) Ports (RJ45 connector) | ICS-G7526A-4GTXSFP-2XG-HV-HV: 20 ICS-G7526A-2XG-HV-HV-T: 20 ICS-G7526A-8GSFP-4GTXSFP-2XG-HV-HV: 12 ICS-G7526A-8GSFP-2XG-HV-HV-T: 12 |
| 100/1000BaseSFP Ports | ICS-G7526A-8GSFP-4GTXSFP-2XG-HV-HV: 8 ICS-G7526A-8GSFP-2XG-HV-HV-T: 8 ICS-G7526A-20GSFP-4GTXSFP-2XG-HV-HV: 20 |

| | |
|---|---|
| | ICS-G7526A-20GSFP-2XG-HV-HV-T: 20 |
| 10GbE SFP+ Slots | 2 |
| 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 802.3ab for 1000BaseT(X) IEEE 802.3ad for Port Trunk with LACP IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3x for flow control IEEE 802.3z for 1000BaseSX/LX/LHX/ZX IEEE 802.3ae for 10 Gigabit Ethernet |

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, SNMP Inform, SNMPv1/v2c/v3, Syslog, Telnet, TFTP, SMTP, RARP, Flow control |
| Filter | 802.1Q, GMRP, GVRP, IGMP v1/v2/v3 |
| Redundancy Protocols | Link Aggregation, 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 |
| Industrial Protocols | EtherNet/IP, Modbus TCP, PROFINET |
| MIB | Bridge MIB, Ethernet-like MIB, MIB-II, P-BRIDGE MIB, Q-BRIDGE MIB, RMON MIB Groups 1, 2, 3, 9, RSTP MIB |

Switch Properties

| | |
|--------------------|---------------|
| DRAM | 128 MB |
| Flash | 16 MB |
| IGMP Groups | 4096 |
| Jumbo Frame Size | 9.6 KB |
| MAC Table Size | 16 K |
| Max. No. of VLANs | 256 |
| Packet Buffer Size | 12 Mbits |
| VLAN ID Range | VID 1 to 4094 |
| Priority Queues | 8 |

USB Interface

| | |
|--------------|------------|
| Storage Port | USB Type A |
|--------------|------------|

Serial Interface

| | |
|--------------|---------------------------------------|
| Console Port | USB-serial console (Type B connector) |
|--------------|---------------------------------------|

Input/Output Interface

| | |
|------------------------|---|
| 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 |

Power Parameters

| | |
|-----------------------------|---------------------------------------|
| Input Voltage | 110 to 220 VAC, Redundant dual inputs |
| Operating Voltage | 85 to 264 VAC |
| Overload Current Protection | Supported |
| Reverse Polarity Protection | Supported |
| Input Current | 1/0.5 A @ 110/220 VAC |

Physical Characteristics

| | |
|--------------|--|
| IP Rating | IP30 |
| Dimensions | 440 x 44 x 386.9 mm (17.32 x 1.73 x 15.23 in) |
| Weight | Standard Models: 5300 g(11.68 lb) Wide Temp. Models: 6470 g(14.26 lb) |
| Installation | Rack mounting |

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 85°C (-40 to 185°F) |
| Ambient Relative Humidity | 5 to 95% (non-condensing) |

Standards and Certifications

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|-----------|--|
| Safety | UL 61010-2-201, EN 61010-2-201 |
| 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 | 314,093 hrs |
| Standards | Telcordia (Bellcore), GB |

Warranty

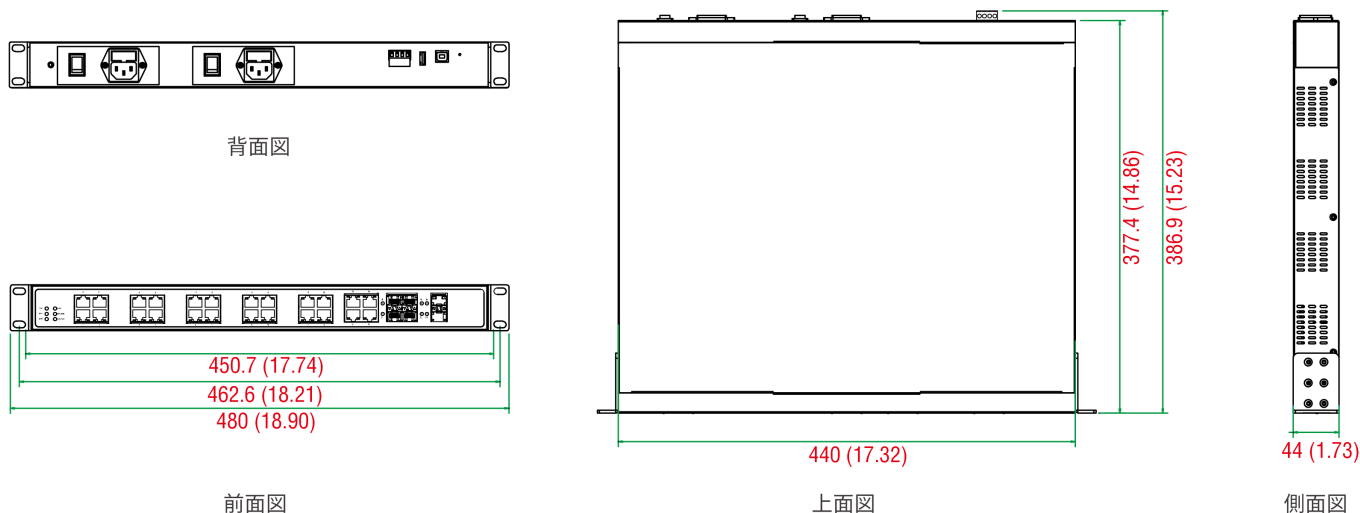
| | |
|-----------------|--|
| Warranty Period | 5 years |
| Details | See www.moxa.com/jp/warranty |

Package Contents

| | |
|------------------|--|
| Device | 1 x ICS-G7526A Series switch |
| Cable | 1 x USB type A male to USB type B male |
| Installation Kit | 2 x rack-mounting ear |
| Power Supply | 1 x power cord, EU type 1 x power cord, US type |
| Documentation | 1 x document and software CD 1 x warranty card |
| Note | SFP modules need to be purchased separately for use with this product. |

寸法

単位：mm（インチ）



注文情報

| Model Name | Layer | 10GbE SFP+ Slots | Combo Ports 10/100/ 1000BaseT(X) or 100/ 1000BaseSFP+ | 100/1000Base SFP Slots | 10/100/ 1000BaseT(X) Ports RJ45 Connector | Operating Temp. |
|-------------------------------------|-------|------------------|---|---------------------------|--|-----------------|
| ICS-G7526A-4GTXSFP-2XG-HV-HV | 2 | 2 | 4 | 0 | 20 | -10 to 60°C |
| ICS-G7526A-2XG-HV-HV-T | 2 | 2 | 4 | 0 | 20 | -40 to 75°C |
| ICS-G7526A-8GSFP-4GTXSFP-2XG-HV-HV | 2 | 2 | 4 | 8 | 12 | -10 to 60°C |
| ICS-G7526A-8GSFP-2XG-HV-HV-T | 2 | 2 | 4 | 8 | 12 | -40 to 75°C |
| ICS-G7526A-20GSFP-4GTXSFP-2XG-HV-HV | 2 | 2 | 4 | 20 | 0 | -10 to 60°C |
| ICS-G7526A-20GSFP-2XG-HV-HV-T | 2 | 2 | 4 | 20 | 0 | -40 to 75°C |

アクセサリ（別売）

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 with LC connector for 4 km transmission, -40 to 85°C operating temperature |
| SFP-1FESLC-T | SFP module with 1 100Base single-mode with LC connector for 40 km transmission, -40 to 85°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 500 m transmission, 0 to 60°C operating temperature |
| SFP-1GLSXLC-T | SFP module with 1 1000BaseLSX port with LC connector for 500 m transmission, -40 to 85°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°C operating temperature |
| SFP-1GSXLC | SFP module with 1 1000BaseSX port with LC connector for 300/550 m transmission, 0 to 60°C operating temperature |
| SFP-1GSXLC-T | SFP module with 1 1000BaseSX port with LC connector for 300/550 m transmission, -40 to 85°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 |
| SFP-10GERLC | SFP+ module with 1 10GBase-ER port with LC connector for 40 km transmission, 0 to 60°C operating temperature |
| SFP-10GLRLC | SFP+ module with 1 10GBase-LR port with LC connector for 10 km transmission, 0 to 60°C operating temperature |
| SFP-10GSRLC | SFP+ module with 1 10GBase-SR port with LC connector for 33 m transmission, 0 to 60°C operating temperature |

Power Cords

| | |
|------------------|---|
| PWC-C13AU-3B-183 | Power cord with Australian (AU) 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-C13UK-3B-183 | Power cord with United Kingdom (UK) plug, 1.83 m |
| PWC-C13US-3B-183 | Power cord with United States (US) plug, 1.83 m |
| PWC-C7AU-2B-183 | Power cord with Australian (AU) plug, 2.5A/250V, 1.83 m |
| PWC-C7EU-2B-183 | Power cord with Continental Europe (EU) plug, 2.5A/250V, 1.83 m |
| PWC-C7UK-2B-183 | Power cord with United Kingdom (UK) plug, 2.5A/250V, 1.83 m |
| PWC-C7US-2B-183 | Power cord with United States (US) plug, 10A/125V, 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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