

## 産業用マネージドレイヤ3のイーサネット・スイッチ

U4210series L3DIN-Rail Industry Switch



### 機能とメリット

- 10/100BaseT(X) (RJ45コネクタ)
- 10/100/1000Base-Tx (RJ45コネクタ)
- 簡単に設置可能なコンパクトなサイズ
- IP40保護等級の金属製筐体
- -40~85°Cの広い動作温度範囲

### 認証



### 製品紹介

U4210シリーズスイッチは、エンタープライズネットワークやオペレーター顧客向けのコスト効果の高いギガビットアクセスと10ギガビットアップリンクのニーズを満たす、レイヤー3イーサネットスイッチです。U4210は、高性能で低消費電力のネットワークプロセッサを使用し、ギガビットラインスピードの転送性能を提供します。さらに、グリーンイーサネットラインスリープ機能をサポートしており、業界内で同レベルの機器の中で最も低い消費電力を持ちます。

また、強力なQoSおよびACL機能、IP + MAC +ポートバインディングサポート、サービスフロー分類、およびパケット優先度マーキングなどのセキュリティ機能をサポート。静的なデータパケットサンプリング、SFLOW機能、多ポートミラーリング分析機能、静的および柔軟なQinQ機能、Ethernet OAM 802.3ag (CFM)、802.3ah (EFM) をサポート。IPv4/6ユニキャストルーティングに適合しています。製品は工業用クラスで設計され、EMC工業レベル4要件を満たしています。製品は-40から+85°Cの広い動作温度範囲をサポートしています。スペース節約のためのコンパクトなサイズに加えて、各製品は85°Cでの100%バーンインテストをパスしており、高品質で高信頼性の転送を保証しています。これらすべての機能により、ビデオ監視、料金システム、ITS、工場自動化など、高信頼性の転送が必要なアプリケーションに最適な製品となっています。

### 仕様

#### Perfect safety mechanism

- Support ACL security filtering mechanism, which can provide security control functions based on MAC, IP, L4 port
- Support ARP attack automatic protection and user blocking functions
- Support DHCP attack automatic protection based on Mac Address and user blocking functions
- Support DDOS and virus attack protection
- Support DHCP-snooping/IP-source-Guard/802.1X and other security features
- Support link protection functions such as BFD, FlexLink, LACP and ERRP
- Support remote loop detection function
- Support CFM, EFM
- Support remote user authentication based on Tacacs+, Radius, and Local user authentication

#### Powerful QoS capabilities

- Support port speed and flow speed limit function
- Support classification based on service flow and QoS flow control function
- Support queue scheduling algorithms such as WRR
- Support port-based and service flow-based mirroring function

#### Carrier-level equipment stability

- Based on Linux operating system, support IPv4/IPv6 dual protocol stack platform
- Support multiple link redundancy and network redundancy protocols such as STP/RSTP/MSTP/ERPS/LACP

<b>Enhanced multi-service capabilities</b>
Support DHCP Server and DHCP Relay Support L2-Tunnel Support Ethernet OAM protocol such as CFM, EFM
<b>Rich routing protocol</b>
Support static route Support dynamic route such as RIP, OSPF,BGP, ISIS Support IPV4/IPV6 dual protocol stack, Support RIPng Simple and easy-to-use network management function Support CLI based on RS232 serial port, Telnet and SSH Support WEB-based configure operation management, support SNMP V1/V2/V3 Support remote upgrade or equipment through FTP and TFTP
<b>Industrial level hardware</b>
Level 4 EMC Protection Aluminum alloy housing, IP40 protection, fanless design DIN-Rail structure

## Hardware Specifications

Item	U4210-8GE2XF-I-AC	U4218-16GE2XF-I-DC
Physical port	8*10/100/1000M Base-T, 2*1/10G Base-X SFP/SFP+ 1*CONSOLE (RJ45)	16*10/100/1000M Base-T, 2*1/10G Base-X SFP/SFP+ 1*CONSOLE (RJ45)
Switching Capacity	56Gbps	72Gbps
Packet Forwarding Rate	41.66Mpps	53.568Mpps
MAC Address	16K	
Multicast Group	1K	
Routing Table	512	
Memory and storage	Memory:512MB, storage:32MB	
Power Supply	DC:12~48V, dual power input	
Power Connector	4-pin 5.08mm-spacing plug-in terminal block	
Power Consumption	<17W	<22W
Dimension (W*H*D)(mm)	178X152X39	178X152X73
Weight(Kg)	≤0.76kg	≤1.1kg
Relative Humidity	5%~95% non-condensing	
Temperature	Working -40°C~85°C, storage -40°C~85°C	
Cooling	Fanless	
IP Protection Class	IP40	
IP Protection Class	EMI:FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS:IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)	
Machinery	IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall)	
MTBF	360,000 hrs	

## Software Specifications

Items	Main Features	
Security	User Security	Support anti-ARP-Spoofing Support anti-ARP-flooding Support IP source guard and IP+MAC+port+VLAN binding table Support port isolation Support port MAC binding and MAC filtering Support IEEE 802.1X authentication Support Radius&TACACS+ authentication
	Switch Security	Support SNMPv3 encryption management Supporting Security-IP telnet mechanism Support user hierarchical management and password protection
	Network Security	Support ARP traffic detection based on per user MAC address Support ARP message suppression or user blocking based on ARP traffic detection Support IP-MAC binding based on dynamic ARP table Support manual P+MAC+port+VLAN binding Support MAC address learning limit, support black hole MAC function Support port isolation Support port broadcast Support DHCP option82 and PPPoE+
Ring Protection	Support STP/RSTP/MSTP Support ERPS Ethernet ring network protection protocol Support Loopback-detection port loopback detection	
Line Protection	Support manual and dynamic LACP	
Network Maintenance	Support LLDP Support Ethernet OAM, 802.3ah EFM and 802.1ag CFM Support RMON (remote monitoring) groups 1,2,3,9 Support Ping and traceroute tool	
Management	Support CLI, WEB and SNMPv1/v2c/v3 management Support Console/Telnet/SSH Support virtual cable detection (VCT) Support SNTp protocol Support user hierarchical management Support Radius/TACACS+ authentication Support FTP,TFTP file upload and downloadaaa	

## 注文情報

Model Name	10/100/1000BaseT(X) Ports (RJ45 connector)	1000Base-X (SFP connector)	Operating Temperature
U4210-8GE2XF-I-DC	8	2	-40°C~85°C
U4218-16GE2XF-IDC	16	2	-40°C~85°C

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