

**EKI-7708E-4FP EKI-7708E-4FPI**



**4FE+4G SFP端口千兆网管型工业POE以太网交换机**

**特性**

****4个IEEE 802.3 AF/AT PoE快速以太网端口+4个SFP端口

****SFP插座，方便灵活的光纤扩展

****冗余：X-Ring Pro（超高速恢复时间，<20 ms），RSTP ****STP（802.1w/1d）

****IXM功能支持快速部署

****安全：802.1X（基于端口，MD5/TLS/TTLS/PEAP加密），radius

****管理：SNMP v1/v2c/v3、web、telnet、标准MIB、私有MIB

****用于交通控制的NEMA TS2

****EN50121-4铁路轨旁部署审批

****宽工作温度范围-40~75°C（EKI-7708E-4FPI）

****双48 Vdc电源输入和1 x继电器输出



**RoHS**

**COMPLIANT**

2002/95/EC

**介绍**

EKI-7708E-4FP/4FPI提供4个快速以太网IEEE 802.3 AF/AT PoE端口和4个SFP（mini-GBIC）端口。它们可以为每个端口提供高达30 W的功率，以满足高功耗功率设备的要求。它们嵌入了Advantech的IxM功能，可以通过快速部署为用户带来好处，并且可以大大节省工程时间和成本。eki-7708e系列还支持NMS，帮助IT经理进行网络维护和故障预防。最后，他们配备了X-Ring Pro，可以实现<20 ms的超高速恢复时间，从而确保网络的稳定

性。EKI-7708E-4FPI还特别具有-40~75°C的宽工作温度范围和NEMA TS2额定值，使其非常适合用于交通应用。最后，EKI-7708E-4FP/4FPI符合EN50121-4欧洲铁路标准对排放和铁路平台以及轨旁部署的要求。

**规格**

**接口**

** I/O 端口** 4 x 10/100BASE-T/TX RJ-45

4 x SFP (mini-GBIC) port

** 控制端口** RS-232 (RJ45)

** 电源连接器** 6-pin screw Terminal Block (including relay)

**物理特性**

** 外壳** Metal Shell

** 防护等级** IP 30

** 安装** DIN-Rail

** 尺寸 (W x H x D)** 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

**LED 显示屏**

**** **LED系统** PWR1, PWR2, SYS, Alarm and R.M.

** LED接口** Link / Speed / Activity

**环境**

|  |  |  |  |
| --- | --- | --- | --- |
| ** 工作温度** | -40 | ~ 75°C (-40 | ~ 167°F) (7708E-4FPI) |
|  | -10 | ~ 60°C (-40 | ~ 140°F) (7708E-4FP) |
| ** 储存温度** | -40 | ~ 85°C |  |
| ** 环境相对湿度** | 10 ~ 95% (非凝结) | | |
| ** 储存湿度** | 10 ~ 95% (非凝结) | | |

**电源**

|  |  |  |  |
| --- | --- | --- | --- |
| **** | **功耗** | 12.1W @ 48VDC (System) | |
| **** | **电源输入** | 48 | VDC (46 to 57 VDC), |
|  |  | 53 | -57 VDC is recommended for 802.3at, |

redundant dual power input

** 电力预算** 120W

** 故障输出** 1 Relay Output



**认证**

|  |  |
| --- | --- |
| ** EMI** | CE, FCC Class A |
| ** EMC** | EN 61000-4-2 |
|  | EN 61000-4-3 |
|  | EN 61000-4-4 |
|  | EN 61000-4-5 |
|  | EN 61000-4-6 |
|  | EN 61000-4-8 |
|  | EN50121-4 |
| ** Shock** | IEC 60068-2-27 |
| ** Freefall** | IEC 60068-2-32 |
| ** Vibration** | IEC 60068-2-6 |
| ** Traffic control** | NEMA TS2 |
| \*= Compliant |  |
| ** Patent** | http://www.advantech.com/legal/patent |

**二级功能**

** L2 MAC Address** 8K

** Jumbo Frame** 9216 Bytes

** VLAN Group** 256 (VLAN ID 1 ~ 4094)

** VLAN Arrange** Port based VLAN, Q-in-Q (VLAN Stacking), GVRP

** Port Mirroring** Per port, Multi-source port,

** IP Multicast** IGMP Snooping v1/v2/v3, MLD

Snooping, IGMP Immediate leave

** Storm Control** Broadcast, Multicast, Unknown unicast

** Redundancy** IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE

802.1w-RSTP, X-Ring Pro, with ultra high-speed recovery time less than 20ms

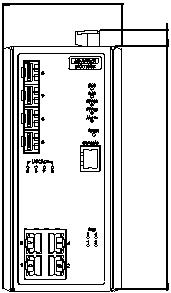
**Industrial Ethernet Solutions**

All product specifications are subject to change without notice. Last updated: 27-Jun-2018

**EKI-7708E-4FP/4FPI**

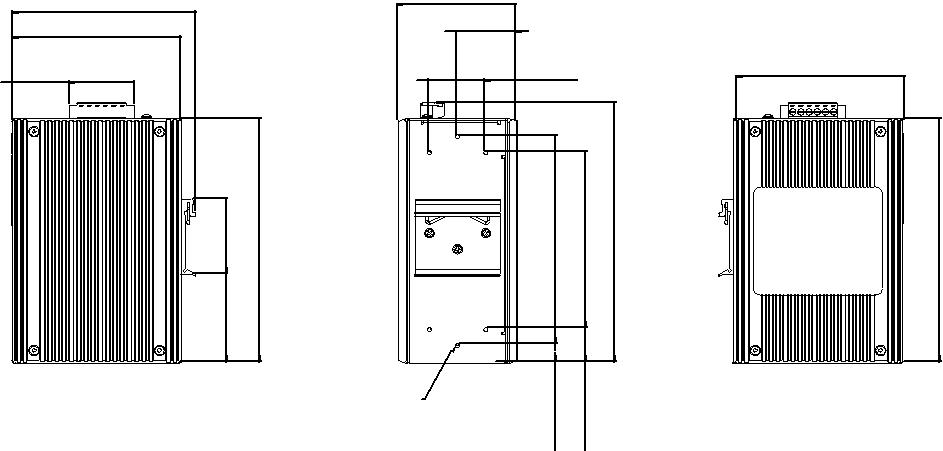
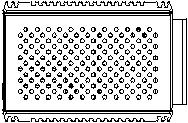
**结构图**

74 [2.913]



Unit: mm [inch]

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4556.[2.22] | [0.591] |  | 1056.[2.209] |  |  |  |  |  |  |  |
|  | 781][1. |  |  |  |  |  |  |  |  |  |
|  | 2545. |  |  |  |  |  |  |  |  |  |
|  | 15 |  |  |  |  |  |  |  |  |  |
|  |  | 37.72 | 35.56 |  |  |  |  |  |  |  |
|  |  | [1.485] | [1.400] |  |  |  |  |  |  |  |
|  |  | 83.50 [3.287] | |  |  |  |  |  |  |  |
|  |  | 114 [4.488] | |  | 74 [2.913] |  |  |  |  |  |
|  |  |  | 37 [1.457] |  |  |  |  |  |
|  |  | 105 [4.134] | |  |  |  |  |  |  |
|  |  |  | 35 | 19.50 |  |  |  |  |
|  |  | 35.18 | 40.64 |  |  |  | 105 [4.134] |  |
| 9.90[0.390] |  | [1.385] | [1.600] |  | [1.378] | [0.768] |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| 152 [5.984] |  |  | [2.165] 47 [1.850] | 152 [5.984] |  | 130 [5.118] | 110 [4.331] | 90161. [6.374] | 152 [5.984] |  |
|  |  |  | 55 |  |  | 11[0.433] | 21[0.827] |  |  |  |
|  |  |  |  |  | 6-M3xP0.5 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |



**Panel Cut-out Dimensions: 105 x 152 x 74 (4.134" x 5.98" x 2.913")**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **QoS** | |  | **订购信息** |  |  |
| ** Priority Queue** | | WRR (Weighted Round Robin), SP (Strict Scheduling | ** EKI-7708E-4FPI-AE** | 4FE + 4G SFP Port Managed PoE Ethernet Switch w/ |  |
|  | **Scheduling** | Priority) Hybrid Priority |  |
|  |  | Wide Temp |  |
| ** Class of Service** | | IEEE 802.1p Based CoS, IP TOS, DSCP based CoS |  |  |
| ** EKI-7708E-4FP-AE** | 4FE + 4G SFP Port Managed PoE Ethernet Switch |  |
| ** Rate Limiting** | | Ingress Rate limit, Egress Rate limit |  |
|  |  |  |
| ** Link Aggregation** | | IEEE 802.3ad Dynamic Port Trunking, Static Port |  |  |  |
|  |  | Trunking |  |  |  |
| **安全** | |  |  |  |  |
| **** | **接口安全** | Static, Dynamic IP Source Guard, ARP Spoofing |  |  |  |
|  |  | Prevention, Access Control List, DHCP Snooping |  |  |  |
| **** | **认证** | 802.1x (Port-Based, MD5/TLS/TTLS/PEAP |  |  |  |
|  |  | Encryption), TACACS+ |  |  |  |
| **管理** | |  |  |  |  |
| ** DHCP** | | Client, Server, Option66/67/82 |  |  |  |
| ** Access** | | SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, |  |  |  |
|  |  | Private MIB |  |  |  |
| ** Security access** | | SSH2.0, SSL |  |  |  |
| ** Software upgrade** | | TFTP, HTTP, Dual Image |  |  |  |
| ** NTP** | | SNTP client |  |  |  |

**Online Download** www.advantech.com/products