

**6G PoE+2G兆PoE+4G SFP端口千兆网**

**EKI-7712G-4FMPI** **管型工业PoE交换机**



**Preliminary**



**RoHS**

**COMPLIANT**

2011/65/EU

**介绍**

**特性**

****支持IEEE 802.3bt 8级90W兆PoE、6 x IEEE 802.3 af/at PoE千兆端口+2 xIEEE 802.3 bt PoE千兆端口+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

****-40~70°C宽范围工作温度

****双48 Vdc电源输入和1 x继电器输出



EKI-7712G-4MPI是下一代PoE交换机，支持IEEE802.3BT 8级90W PoE用于大功率应用。EKI-7712G-4MPI与6 x 802.3 af/at PoE千兆端口、2 x 802.3 bt PoE千兆端口和4 x SFP端口相结合，为不同的场景提供多种用途。EKI-7712G-4MPI嵌入了Advantech的IxM功能，通过快速部署可以为用户带来好处，并且可以节省大量的工程时间和成本。它还支持NMS，帮助IT经理进行网络维护和故障预防。该系列还配备了X-Ring Pro，可以实现<20 ms的超高速恢复时间，确保网络稳定。

**规格**

**接口**

* **I/O 接口**

**控制接口**

**电源连接器**

**物理特性**

**外壳**

**防护等级**

**安装**

**尺寸 (W x H x D)**

**LED 显示**

** 系统LED**

** 接口 LED**

8 x 10/100/1000BASE-T/TX RJ-45

4 x SFP (mini-GBIC) port

RS-232 (RJ45)

6-pin screw Terminal Block (including relay)

Metal Shell

IP 30

DIN-Rail

97 x 152 x 105 mm (3.819" x 5.984" x 4.134")

PWR1, PWR2, SYS, Alarm and R.M.

Link / Speed / Activity

**认证**

|  |  |  |
| --- | --- | --- |
| **** | **安全** | UL 61010 |
| **** | **EMI** | CE, FCC Class A |
| **** | **EMS** | EN 61000-4-2 |
|  |  | EN 61000-4-3 |
|  |  | EN 61000-4-4 |
|  |  | EN 61000-4-5 |
|  |  | EN 61000-4-6 |
|  |  | EN 61000-4-8 |
| ** Shock** | IEC 60068-2-27 |
| ** Freefall** | IEC 60068-2-32 |
| ** Vibration** | IEC 60068-2-6 |
| ** Traffic control** | NEMA TS2 |
| ** Railway Track Side** | EN 50121-4 |
| ** Patent** | http://www.advantech.com/legal/patent |

**环境**

|  |  |  |  |
| --- | --- | --- | --- |
| **** | **工作温度** | -40 | ~ 70°C (-40 ~ 158°F) |
| **** | **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** | 20W @ 48VDC (System) |
| **** | **电源输入** | 48 | VDC (46 to 57 VDC), |
|  |  | 53 | -57 VDC is recommended for 802.3at and |

802.3bt, redundant dual power input

** 电力预算** 370W

** 故障输出** 1 Relay Output



**二级特性**

|  |  |  |
| --- | --- | --- |
| **** | **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 |
| **** | **冗余** | 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: 5-Sep-2018

**EKI-7712G-4FMPI**

**结构图**

97 [3.819]

|  |  |  |
| --- | --- | --- |
| [2.813] |  |  |
| 25060.[2.372] |  |
| 45071. |  |  |
| [0.591] |  |
|  | 15 |  |

|  |
| --- |
| 152 [5.984] 9.900 [0.390] |

Unit: mm [inch]

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 10071. [2.799] |  |  |  |  |  |  |
| 37.720 | 35.560 |  |  |  |  |  |  |
| [1.485] | [1.400] |  |  |  |  |  |  |
| 84 [3.287] |  |  |  |  |  |  |  |
| 114 [4.488] | 97 [3.819] |  |  |  |  |  |
| 105 [4.134] | 47 [1.850] |  |  |  |  |  |
| 35.180 | 40.640 | 45 | 24.500 |  |  | 105 [4.134] |  |
| [1.772] | [0.965] |  |  |  |
| [1.385] | [1.600] |  |  |  |
|  |  | 29[1.142]94[3.701] | 900161.[6.374] |  |  |
|  | [2.212] | 152[5.984] | 10014.555][0. | 152[5.984] |  |
|  | 56.181 | 800123. |  |  |  |  |
|  | 850][1. |  | 984][5. |  |  |  |  |
|  | 47 |  |  |  |  |  |  |
|  |  | 6-M3xP0.5 Draw Hole |  |  |  |  |  |



|  |  |  |
| --- | --- | --- |
|  | **Panel Cut-out Dimensions: 105 x 152 x 97 (4.134" x 5.98" x 3.819")** |  |
|  |  |  |  |
| **QoS** |  | **订购信息** |  |
| ** Priority Queue** | WRR (Weighted Round Robin), SP (Strict Scheduling | ** EKI-7712G-4FMPI-AE** 6G PoE + 2G Mega PoE + 4G SFP PoE Ethernet Switch |  |
| **Scheduling** | Priority) Hybrid Priority |  |
| w/Wide Temp |  |
| ** Class of Service** | IEEE 802.1p Based CoS, IP TOS, DSCP based CoS |  |
|  |  |
| ** 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**

**认证**

**管理**

* **DHCP**
* **Access**
* **安全访问**
* **软件升级**
* **NTP**

Static, Dynamic IP Source Guard, ARP Spoofing

Prevention, Access Control List, DHCP Snooping,

802.1x (Port-Based, MD5/TLS/TTLS/PEAP

Encryption), TACACS+

Client, Server, Option66/67/82

SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB,

Private MIB

SSH2.0, SSL

TFTP, HTTP, Dual Image

SNTP client

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