AES1684M Series



- ♦ Managed Industrial Ethernet Switch;
- ♦ Support 16 electrical Ports, 8 100M Optical Ports, 4 1000M Optical Ports;
- ♦ High efficiency radiating fan less design, Support power redundancy;
- ♦ Support single ring, polycyclic networking;
- ♦ Recovery time of single link failure is less than 50ms;
- ♦ With excellent electromagnetic compatibility, stable and reliable;
- ♦ Applicable to industries for electric power, military, rail transportation, industrial automation and etc.

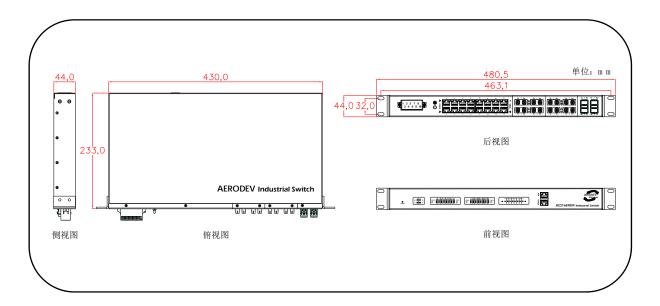
Product	
Function	Managed Industrial Ethernet
Description	Switch
Network	Chain/star/ring
topology	
switch type	layer 2 switching , all
	ports support line speed
	forwarding
Port type	16 10Base-T/100Base-TX
	Half duplex/ full duplex
	RJ45, speed and duplex auto
	negotiation; MDI/MDI-X
	Adaptive; 8 100Base-FX full
	duplex Optical Port (SC/ST)
	and 4 1000Base-X full duplex
	Optical Port (LC); 1 Management
	port (RJ45); 1 Serial port
C-1.1 -	(RJ45)
Cable	LUZD / CZD 100
Twisted-pair	UTP / STP 100m
Optical Fiber	SMF (15km/40km/80km) MMF (2km)
Power Requiremen	
Input power	220V DC
Power	<20W
consumption	
Performance	10.00
Switch capacity	12. 8Gbps at most
packet	19.048Mpps at most
forwarding rate	0.140000504
Port packet	0. 14880952Mpps
forwarding rate	(100Base-Tx/100Base-FX);
Casha sanasit	0.014880952Mpps (10Base-T);
Cache capacity	3Mbit

Address table	8K
capacity	
Address	148809pps/1488095pps
learning rate	
Function	
Flow Control	Support IEEE802.3X flow control
	(Full-duplex)
VLAN	Support IEEE802.1Q VLAN
Storm Control	Support broadcast storm control
Port isolation	Support the isolation
	function based on port
QoS	Ethernet frame type based
	Flow Based
	Priority Based
	Support 4 priority queues per port
	Queue schedule mode: support SP,
	WRR、SP and WRR mixed
Port rate	Support the port ingress rate
	limiting
	Support the output queue rate
	limiting
ACL	Support ACL for L2, L3, L4
Diagnosis	Support virtual cable test
Statistics	Support port snapshot, Port
	Statistics
Spanning Tree	Support RSTP (EEE802.1W) Compatible
Protocol	STP (EEE802. 1D)
Ring protection	Support
protocol	
	single ring, polycyclic networ
	king; Single link failure
	recovery time is less than
	50ms;

SNMP	Support SNMP V1/V2C/V3, MIBII,		
GNMD.	Bridge MIB、EtherLike MIB		
SNTP	Support SNTP		
Multicast	Support for		
	static multicast address		
monogomont	management Support for WEB based network		
management	11		
	management Support for SNMP based network		
	management		
	Support for through the business		
	data export management		
Panel indicator			
Diagnostic	LEDs (power, link status, port rate)		
Environmental conditions			
Operating	-40°C ~+85°C		
temperature			
Storage/transp	-40°C ~+85°C		
ort temperature			
Relative	10∼90%, Non condensing		
humidity			
Mechanical struc	Mechanical structure		
Dimensions (W *	430mm x44 mm x233mm		
H * D)			
Installation	19 inch ,1U		
MTBF			
>20 years (GJB/Z	Z 299C-2006:Gb25)		
Guarantee period			
5 years			
EMC level			
Electrostatic			
diacharge	4 level[GB/T 17626.2-2006]		
immunity			

Electrical fast transien t burst immunity	4 level [GB/T 17626.4-2008]
Damped oscill atory waves immunity	3 level [GB/T 17626.12-1998]
RF electromagneti c field immunity	3 level [GB/T 17626.3-2006]
Surge (impact) immunity	4 level [GB/T 17626.5-2008]
Power frequency magnetic field immunity	5 level [GB/T 17626.8-2006]
The pulse magneti c field immunity	5 level [GB/T 17626.9-1998]
Conduction disturbance i nduced by radio frequency fields immuni ty	3 level [GB/T 17626.6-2008]
Voltage sags and short interruptions immunity	[IEC 61000-4-29:2000] Voltage sags 70% 1s; Voltage sags 40% 500ms; voltage interrupt 0 100ms
Radiation emission	[GB 9254-1998] distance of Measurement 3m; band 30~230MHz Limit of disturbance 50dBuV/m; band 230~1000MHz Limit of disturbance 57dBuV/m

Mounting dimensions



Typical configuration

Product model	Product description
AES1684M4-D1D1D1D1 -P6P6-T2	16 10Base-T/100Base-TX RJ45 ports
	8 100Base-FX Optical Ports (Multimode 2km, SC interface)
	4 1000Base-X SFP interface
	2 220VDC powers
AES1684M4-D0D0D0D0 -P6P6-T2	16 10Base-T/100Base-TX RJ45 ports
	4 1000Base-X SFP interface
	2 220VDC powers