

DH-2018P

Architectural and Engineering Specifications

Version 1.0
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1 Manufacturer

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2 General

2.1 Product Description

DH-2018P is a PoE switch designed and manufactured by IDIS. The PoE switch provides data transmission and power at the same time to the connected network cameras through Ethernet cables by using PoE-enabled ports without need of a separate power outlet for each network camera and it will reduce the installation costs. This switch provides intelligent services such as QoS, security, ACL (Access Control List), and multicast management to ensure stable network communications and to establish high-performance network. Two of service ports are RJ-45 connectors that support 10/100/1000 BASE-T without PoE (Power Over Ethernet) function. The other ports are RJ-45 connectors that support 10/100 BASE-T with PoE function.

2.2 General Specification

1. The switch shall support 16 RJ45 connectors at 10/100 BASE-T.
2. The switch shall support 2 RJ45 connectors at 10/100/1000 BASE-T.
3. The switch shall support IEEE 802.3af-2003 and IEEE 802.3at-2009 PoE standard.
4. The switch shall support up to 16 IEEE 802.3af PDs(Powered Devices) or 4 IEEE 802.3at PDs.
5. The switch shall support 140W for PSE Power Budget.

3 Technical Specification

3.1 Hardware Specification

1. CPU: Embedded MIPS
2. System Memory: 256MB SDRAM, 32M Flash
3. Switching Capacity: 7.2Gbps

3.2 Network Specifications

1. Copper Service Port: 16 RJ-45 Connectors(10/100 BASE-T ports)
2. Copper Uplink Port: 2 RJ-45 Connectors(10/100/1000 BASE-T ports)
3. Optical Uplink Port: N/A
4. Quality of Service: Advanced QoS function of 8 physical queues per port.
5. Supported Protocols
 - A. SNMP: version 1, version 2, and version 3
 - B. IGMP v1, v2, and v3 snooping
 - C. MLD v1 and v2 snooping
 - D. STP(Spanning Tree Protocol)
 - E. MSTP(Multiple Spanning Tree Protocol)
 - F. RTSP(Real-time Streaming Transmission Protocol)
6. Network Authentication Standard: IEEE 802.1x IEEE Standard
7. SSH-encrypted data protection: SSH version 1 and version 2
8. VLAN Based port
9. 8000 MAC address entries
10. L4 based ACL(Access Control List)
11. Port Mirroring
12. IEEE Standards
 - A. IEEE 802.3 10BASE-T
 - B. IEEE 802.3u 100BASE-TX
 - C. IEEE 802.3ab 1000BASE-T
 - D. IEEE 802.3ad Link Aggregation
 - E. IEEE 802.3x Flow Control Support
 - F. IEEE 802.1p Priority Support
 - G. IEEE 802.1D (Bridging) 1993
 - H. IEEE 802.1w Rapid Spanning Tree
13. Internet Standards
 - A. RFC 3635 Ethernet-like MIB
 - B. RFC2863 Interface Group MIB
 - C. RFC 2819 RMON
 - D. RFC 1493 Bridge MIB
 - E. RFC 2674 Bridge MIB extension

3.3 Power Over Ethernet

1. IEEE 802.3af/at compliant
2. Power to application over Ethernet cabling
3. Central power control for greater network utility
4. PoE alternate B power supply
5. Power feeding over 4/5 & 7/8 data twisted.
6. PoE-supported Network Camera Connection
 - A. Up to 16 IEEE 802.3af cameras or 4 IEEE802.3at cameras

3.4 Electrical Specifications

1. Power Supply Equipment power budget: 140W
2. Power Consumption: 160W
3. Power Input: AC100-240V, 2.0~1.0A, 50/60Hz
4. Regulatory Approvals:
 - A. Electrical: FCC,CE,KC,UL,CB

3.5 Mechanical Specifications

1. Unit Dimensions (W x H x D): 430mm x 44mm x 180mm (17.0" x 1.7" x 7.1")
2. Unit Weight: 2.05Kg (4.52lb)
3. Weight with Packaging: 3.1Kg (6.83 lbs.)

3.6 Environmental Specifications

1. Operating Temperature: 0°C ~ 40°C (32°F~104°F)
2. Operating Humidity: 10~90%
3. Storage Temperature: 30°C ~ 60°C (-22°F ~ 140°F)

Version History

Version	Writer	Revision Date	Remarks
1.0	Glen Oh	May. 15. 2018	Initial Release