

## 2.6 WDH-8ET-DC / WDH-8GT-DC

### 2.6.1 Overview of the device elements

Figure 2-6 shows the mechanical dimension details of the various 8 Port WDH series models.

- 8 x RJ45 socket for 10/100/1000Mbit/s or 10/100Mbit/s Twisted Pair connections
- LED display element for device status
- Low Power Consumption
- Overload, Reverse connect protection
- Metal Brackets for DIN and Multi-Mounting

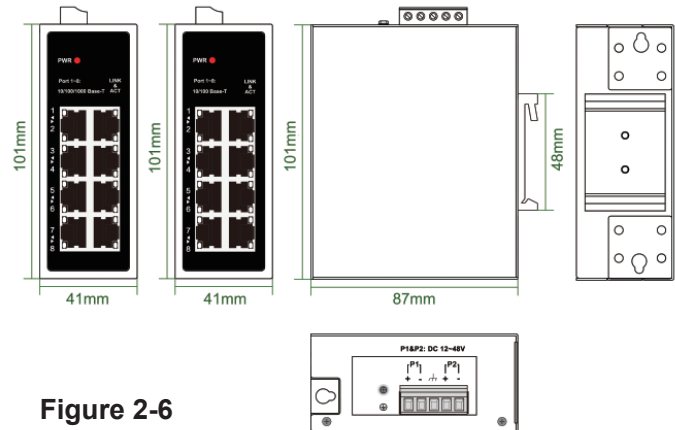


Figure 2-6

WIWAV 8 Port industrial ethernet switch provides top performance in a wider range of operating temperatures than conventional network switches, making it ideal for factories and warehouses. The WDH series give you full/half-duplex auto-negotiation and auto MDI/MDIX operation, enabling you to connect your network devices quickly and easily with little to no configuration required.

|                     |                        |                                                                                                                           |
|---------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------|
| FEATURES & BENEFITS | COMPACT SIZE           | Compact 8-port Ethernet Switch with 10/100 or 1000Mbps automatic MDI/MDI-X crossover for plug-and-play                    |
|                     | LOW POWER CONSUMPTION  | Energy-Efficient Ethernet (Power Consumption <2 watts or 4 watts) , Wide range 12/24/36/48V DC terminal block input       |
|                     | FAST DATA TRANSMISSION | Each port supports both 10/100/1000Mbps speed auto negotiation, Supports IEEE 802.3, 802.3u, 802.3x standard              |
|                     | ROBUST AND RELIABLE    | Can be used in extreme industrial environments; Supports a wide range of operating temperatures -22°F~167°F (-30°C~+75°C) |
|                     | EASY TO USE            | DIN rail mountable with built-in bracket, Robust IP30-rated housing                                                       |

### 2.6.2 Datasheet 2-21 Front Panel

After the working voltage is set up, the software starts and initializes itself.

Afterwards, the device performs a self-test. During this process, various LEDs light up.

| Display  | Elements     | Color          | Status    | Meaning                                                      |
|----------|--------------|----------------|-----------|--------------------------------------------------------------|
| PWR      | Device State | Green          | Lights up | Supply voltage is on, Device is ready for operation          |
|          |              |                | None      | Supply voltage is too low, Device is not ready for operation |
| LINK&ACT | Ports State  | Yellow & Green | Lights up | Device detects a valid link                                  |
|          |              |                | Flashing  | Device is transmitting and/or receiving data                 |
|          |              |                | None      | Device detects an invalid or missing link                    |

### 2.6.3 Datasheet 2-22 Slide Panel

| Figure                                                                            | Specification of the supply voltage                                                      |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| P1 / P2                                                                           | Rated voltage range DC 12V~48V, pluggable terminal block for power supply and grounding. |
|  | Functional ground connection.                                                            |

### 2.6.4 Datasheet 2-23 Rear Panel

| Accessories    | Description                                                                            |
|----------------|----------------------------------------------------------------------------------------|
| DIN Rail Clip  | The sturdy DIN rail clip come in handy for standard 35mm DIN rail mounting devices.    |
| Metal Brackets | With “L” shaped metal brackets, More easy to mounting on equipment racks and cabinets. |

### 2.6.5 Datasheet 2-24 Product Specifications

| Interfaces                                        |                                                                                                                                                                                                                                                                                                                                                                                                           |                           |                               |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------|
| WDH-8ET-DC                                        | 8 x 10M/100M BASE-T Ethernet Port (RJ45) connectors                                                                                                                                                                                                                                                                                                                                                       |                           |                               |
| WDH-8GT-DC                                        | 8 x 10M/100M/1000M BASE-T Ethernet Port (RJ45) connectors                                                                                                                                                                                                                                                                                                                                                 |                           |                               |
| Specifications                                    |                                                                                                                                                                                                                                                                                                                                                                                                           |                           |                               |
| Standards                                         | IEEE802.3 10Base-T / IEEE802.3u 100Base-TX / IEEE802.3ab 1000Base-T                                                                                                                                                                                                                                                                                                                                       |                           |                               |
| MAC Table                                         | 1K / 8K                                                                                                                                                                                                                                                                                                                                                                                                   | Packet Forwarding Rate    | 1.1904Mpps / 11.904Mpps       |
| Packet Buffer                                     | 448K / 2M                                                                                                                                                                                                                                                                                                                                                                                                 | Switching Delay           | <5us                          |
| Power Consumption                                 |                                                                                                                                                                                                                                                                                                                                                                                                           |                           |                               |
| Max. Power Consumption                            | <2W / <4W                                                                                                                                                                                                                                                                                                                                                                                                 | No-load Power Consumption | <1W                           |
| Connectors and Cabling                            |                                                                                                                                                                                                                                                                                                                                                                                                           |                           |                               |
| Ethernet Ports                                    | 100 Meter ( RJ45 )                                                                                                                                                                                                                                                                                                                                                                                        | Fiber Slot                | None                          |
| Power Terminal                                    | 5 x 5.08mm terminal block                                                                                                                                                                                                                                                                                                                                                                                 | PoE Function              | Not Support                   |
| Safety Certifications & Compliance Specifications |                                                                                                                                                                                                                                                                                                                                                                                                           |                           |                               |
| Environmental Regulation                          | RoHS / REACH (SVHC)                                                                                                                                                                                                                                                                                                                                                                                       | QMS                       | ISO9001                       |
| Compliance Marking                                | UL / cUL / IEC EN 62368-1 / FCC (North America) / CE (Europe) / PSE (Japan)                                                                                                                                                                                                                                                                                                                               |                           |                               |
| EMI and EMC Compliance Reliability Testing        | FCC 47 CFR Part 15, Subpart B   EMC Directive 2014/30/EU                                                                                                                                                                                                                                                                                                                                                  |                           |                               |
|                                                   | EN 61000-4-2 ESD Level 4 (±8kV Contact Discharge ±15kV Air Discharge), EN 61000-4-3 RS Level 4 (30V/m 1kHz), EN 61000-4-4 EFT Level 4 (4kV 2kV), EN 61000-4-5 Surge Level 4 (4kV Line to Ground), EN 61000-4-6 CS Level 3 (10Vrms 1kHz), EN 61000-4-8 PFMF Level 4 (30A/m)   Mechanical Shock Test / IEC 60068-2-27:2008, Sinusoidal Vibration Test / IEC 60068-2-6:2007, Free Fall / IEC 60068-2-31:2008 |                           |                               |
| Environmental Specifications                      |                                                                                                                                                                                                                                                                                                                                                                                                           |                           |                               |
| Operating Temperature                             | -22°F~167°F (-30°C~75°C)                                                                                                                                                                                                                                                                                                                                                                                  | Storage Temperature       | -49°F~185°F (-45°C~85°C)      |
| Humidity                                          | 5%-95% (Noncondensing)                                                                                                                                                                                                                                                                                                                                                                                    | MTBF                      | 357,000 hours                 |
| Mechanical                                        |                                                                                                                                                                                                                                                                                                                                                                                                           |                           |                               |
| Housing                                           | Metal & Fanless                                                                                                                                                                                                                                                                                                                                                                                           | Degree of Protection      | IP30                          |
| Weight                                            | 0.4kg                                                                                                                                                                                                                                                                                                                                                                                                     | Mounting                  | DIN-Rail / Wall / Flat / Hang |
| Dimensions                                        | W: 41mm x H: 101mm x D: 87mm (Not including DIN rail and accessories)                                                                                                                                                                                                                                                                                                                                     |                           |                               |