

## Industrial IP-67 Unmanaged Switch



**WUE-567**  
**WUE-567EC**  
**WUE-567ECD**

### Features

#### High Performance Network Switching Technology

- ✓ Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3X
- ✓ Provides 5 x 10/100 Mbps Ethernet ports with RJ-45 connector
- ✓ RJ-45 Port support auto MDI/MDI-X crossover
- ✓ Each port supports both 10/100 Mbps speed auto negotiation
- ✓ 1.4Gbps high performance memory bandwidth
- ✓ Integrated look-up engine with dedicated 1K unicast MAC addresses

#### Robust Industrial Design

- ✓ Robust housing complying to IP-67 housing standard
- ✓ Supports operating temperature -10 to 70°C
- ✓ DIN-Rail, Panel mount or desktop installation

#### Reliable Power Design

- ✓ Supports 10-30 VDC voltage with 1KV isolation
- ✓ Supports Reverse Polarity Protection



### Overview

The Whale Series WUE-567 is a highly reliable and fault-tolerant Industrial 5-port Unmanaged IP-67 Switch. It has 5 10/100TX RJ45 ports that support IEEE 802.3/802.3u/802.3x with 10/100M, full/half duplex, and MDI/MDI-X auto-sensing. WUE-567 Ethernet Switches are designed for use in industrial waterproof & harsh environments. Built with IP-67 connectors, it guarantees a total protection that can withstand a variety of extreme conditions such as high temperature, extreme shock, vibration, dust particles, oil or even liquid immersion. WUE-567 is designed for the toughest applications and can be mounted directly to any machine or convenient flat surface. With high performance design of 1.4 Gbps bandwidth, WUE-567 can simultaneously handle full wire speed communication on each port. A dedicated uplink port enables a connection to other switches without use of a crossover cable. No programming is necessary, as the switch auto-learns network addresses. The reliable power design of 10 to 30 VDC isolated power input keeps spikes and surges on the power line from damaging the power supply. Whale Series also has extended temperature model with conformal coating design: WUE-567EC. WUE-567EC supports operating temperature of -40 to 80°C. The WUE-567/WUE-567EC is a plug-and-play solution for your Industrial Ethernet applications.

### Hardware Specifications

#### Interface

**RJ-45 Ports:** 5 10/100Base-TX auto-negotiation speed, Full/Half duplex, auto MDI/MDI-X

**Power Input:** VDC 10-30V

**Power Protection:** Power reverse polarity protection

**Power Consumption:** 2.6 watts

**Dimensions:** IP-67 standard, 85 mm (W) x 126 mm (H) x 75.5 mm (D)

**Installation:** DIN-Rail, panel mounting or desktop

#### Environmental

**Operating Temp:** Regular: -10 to 70°C  
Extended: -40 to 80°C

**Storage Temp:** -40 to 85°C (-40 to 185°F)

**Operating Humidity:** 100% RH for Operating Temperature -10°C to 70°C

### Technical Specifications

#### Standard:

IEEE 802.3 10Base-T Ethernet  
 IEEE 802.3u 100Base-TX Fast Ethernet  
 IEEE802.3x Flow Control and Back-pressure

#### Network Media:

10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E cable  
 EIA/TIA-568 100-ohm (100m)  
 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E cable  
 EIA/TIA-568 100-ohm (100m)

**Protocol Technology:** CSMA/CD

**Switching Architecture:** Store and Forward

### Performance

#### Data Transfer Rate:

14,880 pps for Ethernet port  
 148,800 pps for Fast Ethernet port

**MAC Address:** 1k

**Memory Buffer:** 512Kbytes

**Back-plane:** 1.4 Gbps

**Transfer Packet Throughput:**

1.19Mpps @ 64bytes

### Regulatory Approvals

**EMI:** FCC Class A

#### EMS:

EN61000-4-2, EN61000-4-3, EN61000-4-4,  
 EN61000-4-5, EN61000-4-6, EN61000-4-8,  
 EN61000-4-11

**Safety:** Pending

**Shock:** IEC60068-2-27

**Vibration:** IEC60068-2-6

**Free Fall:** IEC60068-2-32

**Environmental:** WEEE, RoHS

**MTBF:** 440,000 hrs based on Mil-Hdbk-217F, GB

**Warranty:** 5 years