



# HUG-500GSEN



## Introduction

### Overview

The new and more powerful Husky Series HUG-500GSEN is an Industrial 5-ports Slim Unmanaged Full Gigabit Ethernet Switch that which supports IEEE 802.3/802.3u/802.3ab/802.3x with 10/100/1000Mbps, full/half duplex and MDI/MDI-X auto-sensing RJ-45 ports. The compact switch is equipped wide range redundant dual power input 12/24/48VDC and alarm relay contact, with IP30 compact size robust enclosure for easy installation. HUG-500GSEN is engineered to comply with heavy industrial grade EMS/EMI as well as certified by EN 61000-6-2 and EN 61000-6-4 certified. The switch provides a stable and reliable Ethernet transmission and is especially designed for harsh environments and special needs of industrial automation applications.

## Features

### High Performance Network Switching Technology

- Complies with IEEE standards
- Provides 5 x 10/100/1000Base-T(X) with RJ-45 connector
- Provides DIP switch for broadcast storm protection and alarm setting

### Reliable Power Design

- Supports 12 to 48VDC redundant power input

- Power reverse polarity protection and overload current protection

### Robust Industrial Design

- EN 61000-6-2 and EN 61000-6-4 certified to use in heavy industrial environment
- EN 50121-4 certified for Railway Applications (Track Side)
- Robust industrial design case complies with IP30 housing standard
- Supports operating temperature -10 to 70°C & extended temperature -40 to 80°C
- DIN-Rail or optional wall mounting installation

## Specifications

### Hardware Specifications

#### Interface

**Total Ports:** 5 ports

**RJ-45 Ports:** 5 x 10/100/1000Base-T(X) auto-negotiation speed, Full/Half duplex, auto MDI/MDI-X

**LEDs:** System: Power 1 (Green), Power 2 (Green), Fault (Amber)

**RJ-45 Ports:** 100 (Green), 1000 (Yellow)

**DIP Switch:** DIP 1: OFF (Enable power failure alarm) / ON (Disable)

**DIP 2:** OFF (Enable broadcast storm protection) / ON (Disable broadcast storm protection)

**DIP 3:** OFF (Enable Green Ethernet) / ON (Disable Green Ethernet)

**DIP 4:** Reserved

**Alarm Contact:** 1A@24VDC

#### Power Requirements

**Power Input:** 12 to 48VDC, redundant dual inputs

**Power Consumption:** 12VDC/3.3W, 24VDC/3.4W, 48VDC/4.8W

**Power Protection:** Reverse polarity protection, overload current protection

#### Physical

**Dimensions:** IP30 standard, 31.6mm (W) x 142.1mm (H) x 106mm (D)

**Installation:** DIN-Rail or optional wall mounting

#### Environmental

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

**Storage Temperature:** -40 to 85°C

**Operating Humidity:** 5% to 95% RH (Non-condensing)

#### Technical

##### Standard:

IEEE 802.3 10Base-T Ethernet

IEEE 802.3u 100Base-TX/100Base-FX

IEEE 802.3ab 1000Base-T

IEEE 802.3x Flow Control

**Protocol Technology:** CSMA/CD

**Switching Architecture:** Store and Forward

#### Regulatory Approvals

**EMC:** CE, EN 61000-6-2, EN 61000-6-4

**EMI:** FCC Part 15 Subpart B Class A, CE EN55022 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

**Railway Application (Track Side):** EN 50121-4 (Certified)

**Shock:** IEC 60068-2-27

**Vibration:** IEC 60068-2-6

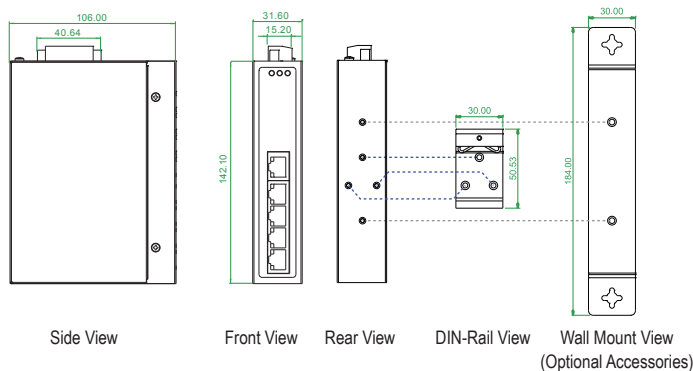
**Free Fall:** IEC 60068-2-32

**Environmental:** WEEE, RoHS

**MTBF:** 1,154,166 hours based on Mil-Hdbk-217F, GB

**Warranty:** 5 years

## Dimensions (unit=mm)



## Ordering Information

**HUG-500GSN** Industrial 5 x 10/100/1000Base-T(X) Slim Unmanaged Full Gigabit Ethernet Switch, -10 to 70°C

**HUG-500GSEN** Industrial 5 x 10/100/1000Base-T(X) Slim Unmanaged Full Gigabit Ethernet Switch, -40 to 80°C