

HSR/PRP Module

HSR/PRP add-on module



Overview

HSR/PRP module is a add-on module specifically designed for embedded NPC industrial computers realizing both IEC62439-3-5/HSR (High-availability Seamless Redundancy) and IEC62439-3-4/PRP (Parallel Redundancy Protocol). The selection of HSR and PRP is configurable in the embedded web-page. This add-on module, which supports two Gigabit ports, is a full FPGA hardware solution with low switching latency and high communication efficiency. Enriched with this HSR/PRP module, a reliable redundancy network with Zero Recovery Time and Zero Packet Loss can be realized with the deployment of industrial NPC series products.

Key Features

For reliable industrial networking

Full FPGA hardware solution with low switching latency

Compliant implementation of HSR (IEC62439-3-5) and PRP (IEC62439-3-4)

Supports hot-swap for easy maintenance (replace the same type only)

Product Specifications

-Interface

Port A: 1000Base-X SFP port

Port B: 1000Base-X SFP port

Industrial Ethernet Solutions

-LED

Port LED: Link/ACT

HSR/PRP mode LED: Mode

-Physical Characteristics

Housing: Metal

Cooling: Natural cooling, fanless

Dimensions (WxHxD): 122.6mm×20.25mm×106.6mm(4.83×0.80×4.20 in.)

Weight: 0.3Kg (0.661 pound)

-Power Requirements

Power input: 3.3VDC

Power terminal: A type interface (powered by backplane)

Power consumption: <5W

-Environmental limits

Operating temperature: -40°C to +85°C (-40°F to 185°F)

Storage temperature: -40°C to +85°C (-40°F to 185°F)

Ambient Relative Humidity: 5% to 95% (non-condensing)

Ordering Information

Model	Description
HSR/PRP-GE-0.5U	HSR/PRP add-on module, 2x100/1000Base-T RJ45 port
HSR/PRP-GX-0.5U	HSR/PRP add-on module, 2x1000Base-X SFP port