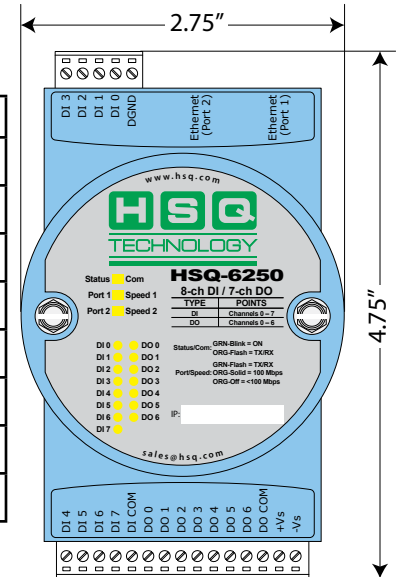


### Key Features

- ◇ I/O Type: Eight Digital Inputs, Seven Digital Outputs
- ◇ Dry and Wet Contact Support
- ◇ 2-port 10/100 Base-TX Ethernet Communication
- ◇ Daisy chain connection with auto-bypass protection
- ◇ Remote monitoring and control
- ◇ Digital I/O LED Indicators

### LED Functionality

LED	Color	Mode	Behavior
Status/ Com	Green	Blink	Normal operation
	Orange	Flash	TX/RX Data transmission
Port/ Speed	Green	ON	Ethernet connected
		Flash	TX/RX data transmission
	Orange	ON	100 Mbps Ethernet speed
		OFF	<100 Mbps Ethernet speed
DI	Green	ON / OFF	Logic 1 / Logic 0
DO	Orange	ON / OFF	Logic 1 / Logic 0



The HSQ-6250 is a high-density I/O module with two built-in 10/100 Base-TX Ethernet ports for daisy chain functionality. This module provides eight digital input and seven digital output channels with LED activity indicators.

### SPECIFICATIONS

#### Digital Input

- **Channels:** 8
- **Dry Contact:** Logic level 0: Open  
Logic level 1: Closed to DGND
- **Wet Contact:** Logic level 0: 0 – 3 V<sub>DC</sub> or 0 – -3 V<sub>DC</sub>  
Logic level 1: 10 – 30 V<sub>DC</sub> or 10 – -30V<sub>DC</sub>
- **Input Impedance:** 5.2 kΩ (wet contact)
- **Transition Time:** 0.2 ms
- **Frequency Input Range:** 0.1 – 3 kHz
- **Counter Input:** 3 kHz (32-bit + 1-bit overflow)
- **Keep/Discard Counter Value when Power-Off**
- **Inverted DI Status Support**

#### Digital Output

- **Channels:** 7 (Sink Type)
- **Output Voltage Range:** 10 – 30 V<sub>DC</sub>
- **Normal Output Current:** 100 mA (per channel)
- **Pulse Output:** Up to 5 kHz
- **Delay Output:** High-to-Low and Low-to-High

#### General

- **Ethernet:** 2-port 10/100 Base-TX
- **LED Indication:** 8 DI and 7 DO
- **Power Consumption:** 3 W @ 24 V<sub>DC</sub>
- **Connectors:** Plug-in screw terminal block
- **Watchdog Timer:** System (1.6 seconds), Communication (programmable)
- **Power Input:** 10 – 30 V<sub>DC</sub> (24 V<sub>DC</sub> standard)

#### Protection

- **Over Voltage Protection:** ±35 V<sub>DC</sub>
- **Isolation Protection:** 2,500 V<sub>DC</sub>
- **Built-in TVS/ESD Protection**
- **Power Reversal Protection**

#### Environment

- **Operating Temperature:** -10° – 70° C (14° – 158° F)
- **Storage Temperature:** -20° – 80° C (-4° – 176° F)
- **Humidity (Operating):** 20 – 95% RH (non-condensing)
- **Humidity (Storage):** 0 – 95% RH (non-condensing)

