

JetI/O 6511

Intelligent 8-CH Thermocouple Input Ethernet I/O Server



- Ethernet I/O server with 8 Channel Thermocouple Input, low voltage and wide range current Analog Input
- 16 bits resolution and high accuracy
- Accurate measurements with cold junction compensation
- High/Low Temperature/Current/voltage active alarm
- Support OPC Server Driver
- Windows Utility, OPC Server Utility, Modbus/TCP protocol, SNMP and web display
- Built-in watchdog timer and real-time clock
- Din-Rail Mount, Robust Aluminum case with IP31 protection

Overview

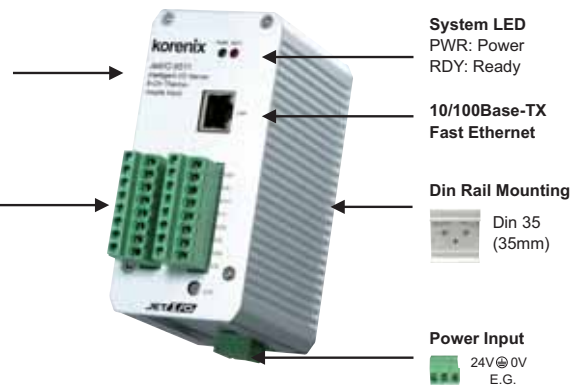
JetI/O 6511 is an intelligent I/O server equipped with 8 Thermocouple Input channels, low voltage and wide range current Analog Input. JetI/O 6511 provides 16 bits resolution and high accuracy for temperature measurement. To make accurate measurements, the temperature can be compensated by cold junction compensation (CJC).

JetI/O 6511 provides Windows Utilities, SNMP and Web configuration. Industrial Modbus/TCP protocol and OPC Server driver for integrating JetI/O with existing HMI/SCADA. Robust aluminum case with good heat dispersing and IP31 protection. With JetI/O, users can easily perform status monitoring and control remote I/O devices.

JetI/O 6511 Appearance

Model Name & Major Feature
JetI/O 6511
8-CH Thermocouple Input

Pin Assignment
ch0 – ch7
16 Pins, Pitch 5.0mm



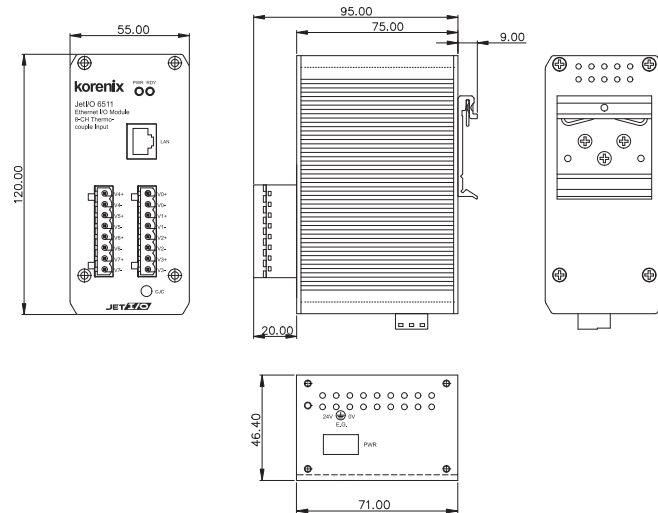
System LED
PWR: Power
RDY: Ready

**10/100Base-TX
Fast Ethernet**

Din Rail Mounting
Din 35
(35mm)

Power Input
24V@0V
E.G.

Dimensions (Unit –mm)



Specification

System

CPU: 100MHz, RISC-Based
SDRAM: 32K bytes
Flash ROM: 512K bytes
EEPROM: 256 bytes
Watchdog Timer: 1.0 sec H/W

LED:

PWR: Power Input plugged and On (Green)
RDY: System startup ready (Red)

Network Interface

Ethernet: IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX
Connector: 1 * RJ45, Auto MDI/MDI-X
Protection: Built-in 1.5 KV magnetic isolation protection
LED:
 Upper (LAN Activity): Orange On & Blinking
 Lower (10M/100M): 10M (Green Off) / 100M (Green ON)

Thermocouple / Analog Input

Channels: 8 Differential
Resolution: 16 bits
Input Type: Thermocouple (T/C), mV, V, mA
Input Range: Voltage: $\pm 2.5V$, $\pm 1V$, $\pm 500mV$, $\pm 100mV$, $\pm 50mV$, $\pm 15mV$
Current: $\pm 20mA$ with external 125 Ω resistor
Temperature Input Range: K/J/N/C/E/B/T/R/S type T/C

Type	Range
K	-100°C ~ 1000°C
J	-100°C ~ 900°C
N	-270°C ~ 1300°C
C	10°C ~ 2310°C
E	-240°C ~ 2310°C
B	0°C ~ 1800°C
T	-270°C ~ 400°C
R	-50°C ~ 1530°C
S	-50°C ~ 1700°C

T/C Open Circuit Detection: Yes

Accuracy: $\pm 0.01\%$ of FSR $\pm 1LSB$

Sampling Rate: 10 samples/sec (total)

Input Impedance: 10 M Ω

Calibration: On Board EEPROM

Isolation Voltage: 2500Vrms

Feature

Network Protocols: IP, TCP, UDP, SNMP, HTTP, BOOTP, DHCP, Modbus/TCP, OPC Server

Configuration: Windows Utility, Web, SNMP, DHCP Client, BootP for firmware update

Windows Utility: Block I/O Utility

OPC Server Utility: OPC Server for Modbus/TCP

SNMP: MIB-II: System, SNMP Trap and Private MIB

SNMP Trap Server: Up to 4 SNMP Trap Server

I/O Rules: High-/Low- Voltage/Current alarms

Power Requirement

System Power: external unregulated +24V (18-32V)

Power Consumption: Max. 3.2 W

Mechanical

Dimensions: 120 (H) x 55 (W) x 75 (D) mm

Mounting: Din-Rail

Material: Aluminum

Environmental

Regulatory Approvals: CE, FCC Class A

Operating Temperature: -25 ~ 70°C

Operating Humidity: 0 ~ 95% non-condensing

Storage Temperature: -40 ~ 80°C

Warranty: 3 years

Ordering Information

Jet/O 6511 Intelligent 8-CH Thermocouple Input Ethernet I/O Server

Industrial
PoE Switch

IP67/68
Ethernet Switch

Rackmount
Managed
Switch

Gigabit Switch

Redundant
Switch

Entry-Level
Switch

Networking
Computer

Communication
Computer

Ethernet
I/O Server

Serial Device
Server

Media
Converter

Multiport
Serial Card

SFP Module

Din Rail
Power Supply