CENTRA®
LINE
by Honeywell

CentraLine HAWK DATA SHEET

CLAXHAWK

Product Overview

The HAWK is a compact, DIN-rail mounted platform utilising the Niagara^{AX} Framework$^{®}$ for integration, control and web serving.

The HAWK includes Ethernet and serial com ports as standard.

The communication capability can be extended by adding plug-in cards into the 2 expansion slots within the unit. DIN Rail mounted I/O modules can be added to provide up to 66 directly connected points. Also, external LON I/O can be used (requires optional LON port)

Connectivity

Basic unit has 2 Ethernet ports plus one RS 232 and one RS 485 port.

A dial-up or GPRS modem can be connected to a serial port, and a DSL modem/router can be connected to an Ethernet port, enabling IP communication for remote access and management.

Engineering

Integrated Graphical Engineering Tool is embedded in the HAWK so engineering can be carried out from a browser.

Optional Plug-in Cards

2 slots are available for plug-in communication cards:

- LON FTT-10a port
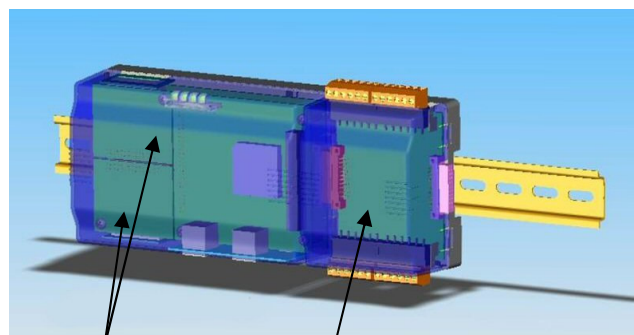- 2 x RS485 ports
- RS232 port

Plug-on DIN rail mounted modules:

- 16 point I/O – 8xUI, 4xAO, 4xDO
- 34 point I/O – 16xUI, 8xAO, 10xDO
- 24V PSU module

Features

- **Runs the Niagara^{AX} Framework**

- **DIN rail mounting**

- **2 x Ethernet + 1 x RS232 and 1 x RS485 ports**

- **Optional plug-in cards for communication**

- **Add on IO modules provide up to 66 points. Additional hardware I/O possible through LON Modules**

- **24Vac or 230V PSU options**

- **Supports Open Communication networks LON, BACnet, EIB-IP, Modbus, M-bus, SNMP, Z-wave**

- **Full network management of LONworks devices**

- **Built-in Web Server provides Graphical User Interface via Browser**

Plug-in cards   16 point IO module

Specifications

Platform	HAWK 2	HAWK 6
IBM PowerPC processor 405EP	250 MHz	524Mhz
DRAM	128MB	256MB
Serial Flash	64MB	128MB

Battery back-up 5 minutes typical – shut down begins within 10 secs

Data Base storage and Real-time clock – 3 month battery back-up

Communications

2 Ethernet Ports - 10/100Mb (RJ45 connectors)

1 RS232 port (9 pin D-connector)

1 RS485 non-isolated port (3 way two part connector)

Optional Communications Cards (plug-in, internally mounted)

LON adaptor FTT-10A, RS485, RS232

Din Rail Mounted Input Output Modules

Connection to HAWK-2 and HAWK 6 is via a single multi-pin plug

Removable screw terminals for all inputs and outputs (in blocks of 6)

Universal Inputs (UI) for:

- Type 3 (10K) Thermistors, input accuracy +/-1% of span
  Other types may be supported by entering custom non-linear
  curve interpolation points for each non-linear input

- 0-10Vdc acc. +/- 2% of span without user calibration

- 4-20mA acc. +/- 2% of span, without user calibration
  Uses externally connected resistor for current input (provided)
  Self-powered or board powered sensors accepted

- Dry contact V open circuit, 300-uA short-circuit current
  Pulsing dry contact up to 20Hz; 50% duty cycle

Digital Outputs (DO):

Form A relay contacts max 30Vac or dc, 0.5A max current; suitable for on / off control only, floating control not supported

Analog Outputs (AO)

0-10Vdc 4mA drain max.

How to Order

CLAXHAWK660	HAWK 6 with 96MB Java Heap Memory
CLAXHAWK650	HAWK 6 limited to 48MB Java Heap Memory
CLAXHAWK250	HAWK 2 with 48MB Java Heap Memory
CLAXHAWK240	HAWK 2 limited to 16MB Java Heap Memory
CLAXHAWK230	HAWK 2 limited to 16MB Java Heap Memory 450K resource limit 200 points max/network
CLAXHAWK220	HAWK 2 limited to 16MB Java Heap Memory 350K resource limit 8 points max/network 34 points max NDIO Niagara + 1 other network
CLAXHAWKIO16	16 point IO module
CLAXHAWKIO34	34 point IO module with built-in 24Vac/dc PSU
CLAXWPMEU	90-240Vac Plug Top PSU Europe 2 pin
CLAXWPMUK	90-240Vac Plug Top PSU UK 3 pin
CLAXNPBPWR	24Vac DIN rail mounting PSU
CLAXHAWKIFLON	plug-in LON FTT card
CLAXHAWKIF485	plug-in RS485 card (2 ports)
CLAXHAWKIF232	plug-in RS232 card

Chassis

Construction: plastic enclosure, internal air convection cooling

Intended for indoor wall or panel mounting only

Modules Available

HAWK 2 and HAWK 6

  162 x 104 (122) x 62mm (with terminals)

  Panel fixing lugs add 20mm to the main module width

IO16 module

  8UI 4 DO 4 AO

  max 4 per JACE or 2 in combination with IO 34

  80 x 104(122) x 62mm (with terminals)

IO34 module

  16UI 10DO 8AO

  max 1 per JACE

  includes integral 24vac/dc PSU

  162 x 104(122) x 62mm (with terminals)

Power Supply

90 - 240Vac 50-60Hz universal plug-top PSU providing 15Vdc to HAWK

Available with European, UK or US plug types

DIN rail mounting PSU module: 24Vac/dc 50-60Hz 25VA max. This PSU is integral with the IO 34 module

One PSU required per HAWK and IO module combination

Operating System

QNX operating system

IBM J9 Java Virtual Machine

Niagara^{AX} Framework

Environment

Operating temperature range: 0 to 50°C

Storage Temperature range: 0 to 70°C

Relative humidity: 5 to 95%, non-condensing

Agency Listings

CE, UL 916, C-UL listed to Canadian Standards Association (CSA)

C22.2 No. 205-M1983 "Signal Equipment"

FCC part 15 Class A, C-tick (Australia)

CLAXHAWKIO16   **CLAXHAWKIO34**

CLAXWPMEU   **CLAXNPBPWR**