Key Features

- Industrial Processor
- Distributed Alarm and Data Processing
- Sequence of Events (SOE) Buffering
- Synchronized Real-Time Clock
- Intelligent Stand Alone Control
- VisualCL (Graphical Control Logic)
- IP LAN/WAN Support
- IEEE 802.3 10/100 Ethernet
- Backup Power Supply Option
- MODBUS Master and Slave Capability
- DNP3 Master and Slave Capability
- Low Power Option
- Extended Temperature Option

The Model 25x86 Logic Processor Stack is an x86-based data acquisition and control computer intended for a wide range of telemetry, SCADA, distributed automation, and facilities management applications. The 25x86 processor board provides software and communications compatibility with existing HSQ Model 2500/86 and Model 2500 Logic Processors.

25x86 Architecture

- 3-AI
- 4-AI/DI
- AC OK
- BATT OK
- OPS MONITOR

8602 Control Panel Board
- 12 DI, TTL
- 12 DO, TTL

x86 Processor Board

AUX I/O Interface Boards

PC/104 STANDARD BUS

2592 Communication Board
- Ethernet
- RS-232/485

2500 Series I/O Expansion Boards
- Up to 25 Boards w/ 2 Buses
- 832 I/O Points

PC/104 8601 Interface Board

General Expansion
Processor Boards

- **Processor Type/Speed:**
  - Standard/Low Power: x86 1.0GHz
  - Extended Temperature: x86 800MHz

- **Memory:**
  - 256 Mb SDRAM standard, expandable

- **Non-Volatile Memory:**
  - 64 Mb CompactFlash standard, expandable

- **Real Time Clock:**
  - Year, Month, Day, Hour, Minute, Seconds, and an On-Board Clock Battery

- **Watchdog Timer:**
  - Automatic System Reset after Software Failure

- **Ethernet Interface:**
  - Standard/Extended Temperature: Embedded 10/100, dual port configurable
  - Low Power: Embedded 10/100, single port

- **Serial Ports:**
  - Low Power: One RS-232 and One RS-232/422/485 standard, expandable, USB available

- **Master Protocol:**
  - Allen Bradley DF1, ASI, MODBUS Master (Serial/TCP), DNP3 Master

- **Remote Protocol:**
  - HSQ COS Protocol, MODBUS Slave (Serial/TCP), DNP3 Slave

- **PC/104 Connector:**
  - 32-bit PC/104-Plus Bus

HSQ 8602 Control Panel Board

- **Indicators:**
  - Power, Stand Alone Active, Outputs Enabled, Initialized by Host, Door Open

- **Switches:**
  - Stand Alone Mode (Forced/Auto/Inhibit), Outputs Enable/Disable

- **Embedded I/O:**
  - 12 TTL Digital Inputs, 12 TTL Digital Outputs (compatible with HSQ AUX I/O Interface Boards)
  - 4 Analog Inputs, (4-20 mA, 0-1 mA, 0-5 V, 0-10 V) (Note: Configurable as 24 Vdc Digital Inputs)
  - 3 Analog Inputs (4-20 mA, 0-1 mA)

- **I/O Expansion Bus Port:**
  - 2500 Series I/O Expansion Boards, up to 25 boards, 832 points

- **Battery Voltage Monitor:**
  - On-Board AI Monitors +24 Vdc Supply Voltage, Reads Battery Volts During Discharge

- **AC OK Monitor:**
  - TTL from 2585 Power Control Board, indicates either AC Power or Battery being used

- **Battery OK Monitor:**
  - TTL from 2585 Power Control Board, Indicates Defective Battery

- **Address Switches:**
  - Unit Address, 1-999

- **Ops Monitor Relay:**
  - 24 Vdc, 10 A Maximum

- **Door Alarm:**
  - Photocell Activates Internal Alarm Point When Illuminated, Adjustable Threshold

General

- **Logic Power:**
  - Standard/Extended Temperature: 5 Vdc, 6 W
  - Low Power: 5 Vdc, 3.7 - 4.4 W

- **Field I/O Power:**
  - 24 Vdc, Power Consumption Varies by I/O Configuration

- **Temperature:**
  - Standard/Low Power: 0º – 60º C (32º – 140º F) — Operating
  - Extended Temperature: -40º – 85º C (-40º – 185º F) — Operating

- **Humidity:**
  - 5-95% Relative Humidity, Non-Condensing

- **Dimensions:**
  - 1,778 mm x 2,540 mm (7” H x 10” W) — Depth Varies According to Board Configuration

2500 Series I/O Expansion Boards *

- **2507** — 4-ch Analog Output
- **2508** — 16/32-ch Analog Input
- **2509** — 32-ch Digital Input
- **2510** — 64-ch Digital Output
- **2533** — 32-ch Digital Output

- **2534** — 32-ch Intelligent Digital Input (SOE to one Millisecond)
- **2548** — 16-ch Relay Digital Output Form C 10 Amp Relay
- **2569** — 16-ch Digital Input and 16-ch Digital Output
- **2587** — 64-ch Digital Input or 64-ch Counter Input (TTL)

HSQ 6000 Series I/O Remote Multiplexer Expansion Boards *

- **HSQ-6015** — 7-ch Isolated RTD Input Module
- **HSQ-6017** — 8-ch Isolated Analog Input Module w/ 2-ch DO
- **HSQ-6018** — 8-ch Isolated Thermocouple Input Module with 8-ch DO
- **HSQ-6024** — 12-ch Isolated Universal I/O Module

- **HSQ-6050** — 18-ch Isolated Digital I/O Module
- **HSQ-6051** — 14-ch Isolated Digital I/O Module
- **HSQ-6052** — 16-ch Source-type Isolated Digital I/O Module
- **HSQ-6060** — 6-ch Digital Input, 6-ch Relay Module
- **HSQ-6066** — 6-ch Digital Input, 6-ch Power Relay Module

HSQ AUX I/O Interface Boards *

- **1046** — 8-ch Digital Input, 24 Vdc
- **1047** — 8-ch Digital Output, 24 Vdc
- **1332** — 8-ch Digital Output, Form C 10 Amp Relay
- **8646** — 12-ch Digital Input and 12-ch Digital Output, 24 Vdc

*NOTE: All Digital Inputs can be used as Counter Inputs.