

## HSM-001/HSM-002/HSM-003/HSM-004

The Standard Hardware Support Module HSM-001 includes an electronic enclosure to house the components for the Enterprise Serialization solution (ES). The enclosure contains 12VDC, 24VDC and 48VDC power supplies, the industrial PC, Un-interruptible Power Supply (UPS), 8-port Ethernet switch, and the Core Power Over the Ethernet (POE) switch. The HSM-001 enclosure is available in CE (230VAC) and UL (120VAC) options. The Standard Hardware Support Module HSM-001 has Human Machine Interface (HMI) options of a local stainless steel operator interface with integrated keyboard and pointing device, a remote HMI, a local and remote HMI, or two remote HMI's. A QA scanner is included with each HMI kit.

### HSM-001 Enclosure

The Hardware Support Module includes the stainless steel panel which contains the IPC, UPS, and other components required (listed below) to run the solution along with one (1) PLC Driver.



### IPC

The IPC, which is a panel mount computer; contains a Core2 Duo, 1.2Ghz CPU with 4G RAM, 50G SSD, 2 serial ports, 1 dedicated GigE port for cameras, 2 dedicated Ethernet ports (1000/100/10), 1 general purpose Ethernet port (1000/100/10), and 4 USB ports for external connections.

### Uninterruptible Power Supply

The UPS will maintain power for the system for upto thirty minutes. The UPS will shutdown the application and the operating system after five minutes to preserve battery life.

### POE Switch

A 6 Port GigE POE switch for the Systech Camera Network. The din rail mount camera switch will contain 4 POE ports for e-Series camera connectivity and 2 Ethernet ports for connectivity to the IPC2 and VIK(s).

### 8-Port Network Switch

An 8 Port Network switch is included for Ethernet connectivity.

### Power Supplies

- 12VDC – Power for the Local HMI and 29MP camera.
- 24VDC – Power for Devices and I/O.
- 48VDC – Power for POE Switch (Camera Network).

### HSM-002

HSM-002 is an OEM version with the same components listed above without the enclosure along with one (1) PLC Driver.

### HSM-003

HSM-003 is an OEM version with the same components listed above with a backplane only (34"H x 28"W). It comes with one (1) PLC Driver and requires the selection of the remote OEM HMI-410.

### HSM-004

HSM-004 is an OEM version with the same components listed above with a backplane only (27"H x 21"W). It comes with one (1) PLC Driver and requires the selection of the remote OEM HMI-410. Due to the smaller backplane, this HSM only supports a single PIM with one VIK, one POE switch, and one line switch. Multiple PIMs or PIMs with more than one VIK, POE switch, or line switch are not supported.

### Local Human Machine Interface

Human Machine Interface (HMI) which may be mounted on the top of the SSP using a Systech-provided mounting kit. The OIU will consist of a back mount stainless steel housing, 17" touch-screen monitor, USB QWERTY industrial keyboard with pointer, and 1 USB port and scanner for QA operations.



### Remote Human Machine Interface

For applications that require a remote HMI, an HMI with a KVM extender is included. The KVM extender will consist of din rail mount local unit, mounted inside of the panel, and din rail mount remote unit. The maximum distance between the local unit and remote unit is 50 meters.



### Remote OEM Human Machine Interface

For applications that require a remote HMI, HMI-410 solution will include an open frame monitor kit, an industrial keyboard with pointer, and KVM extender. The open frame monitor kit will consist of a 17" open frame touch screen monitor, AC adapter for the monitor power (12VDC), Bezel Kit, and 6ft SVGA cable. The KVM extender will consist of din rail mount local unit, mounted inside of the panel, and din rail mount remote unit. The maximum distance between the local unit and remote unit is 50 meters.



**HUMAN MACHINE INTERFACE (HMI) LANGUAGE SELECTION CHART**

CODE	DESCRIPTION
EN	English QWERTY Keyboard with English language baseline
FR	French AZERTY Keyboard with French language baseline
DE	German QWERTZ Keyboard with German language baseline
PT	English QWERTY Keyboard with Portuguese language baseline
SP	Spanish QWERTY Keyboard with Spanish language baseline
ZH	English QWERTY Keyboard with Simplified Chinese language baseline

**TABLE 1: LANGUAGE SELECTION GUIDE**



**ENCLOSURE SELECTION CRITERIA**

- HSM-001-  
HSM-002-  
HSM-003-  
HSM-004-

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“CE” = “230VAC electrical source with CE Marking and Certification”.

“UL” = “120VAC electric source with UL Marking and Certification”.

**LOCAL HMI SELECTION CRITERIA**

- HMI-210-

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Refer to Table 1 for language selection.

**REMOTE HMI SELECTION CRITERIA**

- HMI-310-

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Refer to Table 1 for language selection.

**REMOTE OEM HMI SELECTION CRITERIA**

- HMI-410-

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Refer to Table 1 for language selection.

**EXAMPLE:** HSM-001-CE, with HMI-210-EN and HMI-310-EN would represent a 230VAC enclosure with one (1) Local HMI and one (1) Remote HMI with English language.