01 / Product and system dashboard

HONEYWELL

FS-USI-0001

Communication module

Product role

Honeywell FS-USI-0001 provides Ethernet and serial communication between a Safety Manager controller and external systems through four independent channels.

External systems
Ethernet / serial

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FS-USI-0001
Communication handling

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Control Processor
Configured data exchange

Engineering scope

The listed architecture applies to USI-0001. The supplied FS-USI-0001 identity does not state a revision; V1.1/V1.2 improvements and revision-specific approvals or ratings require the actual unit marking.

02 / Verified identity and technical relationships

Property	Applicable fact	Property	Applicable fact
Interface channels	4 independent channels	Flash memory	8 Mbyte
Ethernet	2 auto-ranging 10/100 Mb channels	Local SRAM	4 Mbyte with error detection and correction
Ethernet connector	RJ45	Shared RAM	256 kilobyte
Serial interfaces	2 general-purpose channels	Module information	EEPROM stores MAC addresses and hardware revision
Serial connector	10-pin AMP	Diagnostics	Tx/Rx activity, module status and dedicated watchdog
Communication processor	Motorola 8260	Coating	FS variant: non-conformal coated

Configuration boundary

The listed architecture applies to USI-0001. The supplied FS-USI-0001 identity does not state a revision; V1.1/V1.2 improvements and revision-specific approvals or ratings require the actual unit marking.

03 / Applications and system integration

Supervisory communication

Exchange applicable data with Experion PKS through the configured Safety Manager communication architecture.

Engineering access

Provide the supported communication path for Safety Builder within the authorized system configuration.

Controller communication

Use the configured communication channels to interface with other Safety Managers.

Serial device integration

Match the required DCOM-232/485 interface and serial configuration to the connected external device.

Functional context

Channels A and B use auto-ranging 10/100 Mb Ethernet through RJ45 connectors and the applicable UCOM-HSE connection arrangement. Channels C and D are general-purpose serial channels using 10-pin AMP connections with the applicable DCOM-232/485 arrangement. Module EEPROM retains specific information including two MAC addresses and the hardware revision. The design has 8 Mbyte Flash, 4 Mbyte local SRAM and 256 kilobyte shared RAM.

04 / Service and installation decisions

Preserve revision identity

Read the full FS-USI-0001 marking and hardware revision before applying revision-specific requirements.

Match external interfaces

Confirm the UCOM-HSE or DCOM arrangement and cable type for each used channel.

Preserve network configuration

Record MAC-related configuration, addressing and the approved communication topology.

Plan communication interruption

Hot swap support does not maintain an unplugged communication link; assess the connected systems before removal.

Check diagnostics

Review status, Tx/Rx activity and watchdog-related faults before returning the communication path to service.

Validate system behavior

Verify intended data exchange and the approved control-program handling of communication failure.

05 / Reference basis and related portfolio

Lifecycle and supply

A current manufacturer lifecycle phase has not been confirmed. Request current support and replacement guidance using the complete FS-USI-0001 identity. Apter Power availability is confirmed separately in the quotation.

Reference basis

Honeywell Safety Manager Hardware Reference, EP-SM.MAN.6284, Release 151, Issue 1.0 Revision 2.

Apter Power technical summary. Apply the original instructions for the actual installation.

Related industrial automation products

Navigation only; no substitution or compatibility claim.

Honeywell FC-UGAI01

Honeywell FC-USI-0002

Honeywell FC-SCNTO2

Discuss your installed configuration

Send the full unit marking and connection details.

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