

SIU



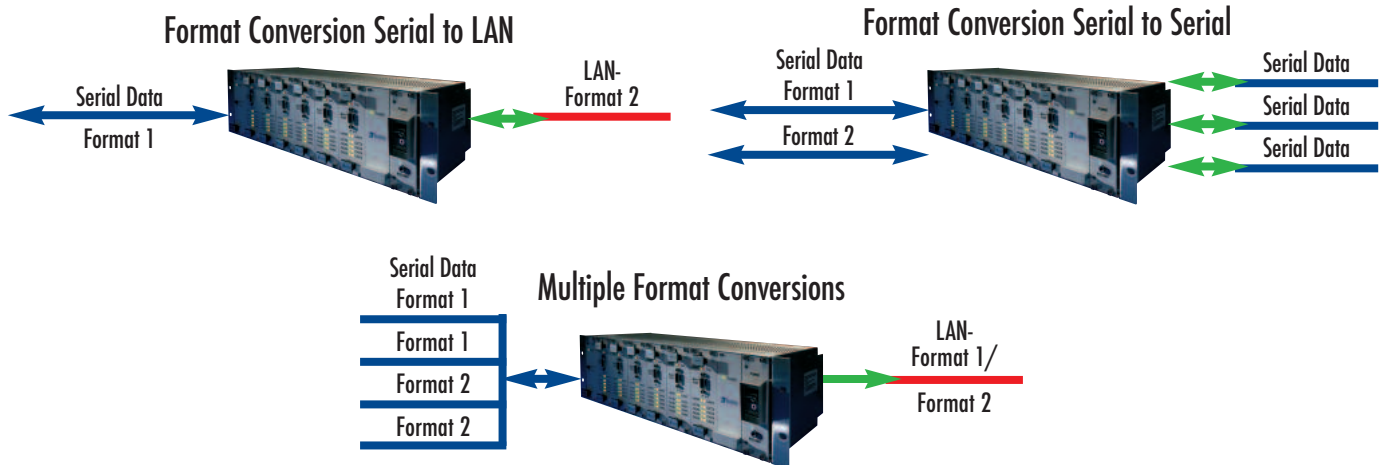
The ability to integrate data from geographically dispersed surveillance sensors can result in enhanced safety, increased system capacity and efficiency, and substantial cost savings. The Sensis System Interface Unit (SIU) is a highly modular data format and protocol converter that enables the integration of disparate sensor data. Each SIU module contains four independent, bi-directional serial channels which support a variety of protocols, electrical standards and message formats. The SIU's rack-mountable enclosure provides power for up to six SIU modules and a 10BASE-T Ethernet hub (10/100BASE-T Switch). The SIU modules and enclosure form an Ethernet network to transfer data using standard TCP/IP and UDP/IP communication protocols. Additionally, the enclosure has a spare Ethernet port to connect multiple SIUs for communication between the serial data channels and modern, networked computer systems or displays.

SIU channels can be easily re-configured over an Ethernet connection using a maintenance software program.



Benefits

- Allows hot swapping of SIU modules (SIU-2 only)
- Provides data multiplexing to optimize communications architecture
- Converts radar formats to support legacy equipment



SIU Specifications

Physical Characteristics

Overall Dimensions (in., W x H x D)
 Module: 1.99 x 5.06 x 7.33
 Chassis: 19 x 5.25 x 9.2
 Switch: 1.59 x 5.09 x 7.33
 Power Supply: 1.59 (8 HP) x 5.06 (3 U) x 7.48
 Filler Panel: 1.99 (10 HP) x 5.06 (3 U) x 0.21
 Power Cord (length, in ft.): 10

Weight (lb.)

Enclosure (with power supply and switch): 8.5
 Module: 0.5
 Filler Panel: 0.1

Regulatory Compliance

Safety Specification: UL 60950-1, EN 60950-1,
 IEC 60950-1
 EMI/RFI: Certified for FCC Part 15 Class A,
 EN 55022 Class A, EN 55024
 Markings: cTUVs and CE to the EMC and LVD

Environmental Characteristics

Temperature (ambient, °C)

Operating: 0 to 50
 Non-Operating: -40 to 85
 Altitude: 0 to 2 Km above sea level

Relative Humidity (percent)

Operating: 10 to 80, non-condensing
 Non-Operating: Up to 100%, including condensation
 due to temperature changes

Typical Serial Formats

Aircat	Asterix	FPS-110	HDLC	SYNC
CD-2	CD-1	TPS-70	ASYNCR	Mode B

Electrical Interfaces

Serial: EIA 530, RS-232, RS-422, RS-232E
 LAN: 10/100BASE-T Ethernet switch
 PC Configurable Port: RS-232
 Power: 120 – 240 VAC at 50 – 60 Hz

Reliability

MTBF – Enclosure, power supply, and switch: 135,000 hours
 MTBF – Module: 230,000 hours

Accessories and Spares

Model Numbers

Spare panels:	PA-2
Additional modules:	NG202
Power supply:	PS-2
Ethernet switch:	EH-02
Spares package (switch, chassis, power supply):	SP2.0
NUNIO Host Configuration Software:	NUNIO-SW
Installation, Operation and Maintenance Manual:	IO&MM

While every effort is made to ensure data accuracy, please note that data may be subject to change.

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