

RICI 5000 Product Sheet

ISO9001 Certified

Real-Time Interface & Conversion Item 5000





*Optional 1U Dual RICI Rackmount

Sunhillo's Real Time Interface and Conversion Item (RICI) 5000 is a versatile and modular platform designed for surveillance sensor

designed for surveillance sensor data formatting, filtering, and protocol conversions.

The RICI 5000 is an upgraded version of the popular RICI 4500 packaged in a new compact, rugged format featuring dual Gigabit Ethernet ports and 4 serial ports. The optional rackmountable chassis utilizes 1U of rack space for single or dual RICI's mounted in a single chassis. The all new rear M8 6-pin circular port provides a user interface for future expanded product features.

The RICI 5000 is an ideal solution for networks requiring low-density,

high-speed system interfacing to multiple serial ports with the ability to scale to future network demands. The RICI is a compact FPGA-based signal processing platform that enables synchronous, asynchronous, Bi-sync plus HDLC serial / LAN interconnectivity and can be programmed to perform essentially any data format conversion. Generally, the units are pre-configured to your specifications at the factory making installation and integration simple and efficient.

Common conversions performed by the RICI include message format transformations between surveillance data in ECGP, CD-2, ASR, various ASTERIX categories, ADS-B, MAR, TPS75, Mode

FEATURES

- TCP/IP and UDP/IP Serial to LAN Protocol Conversions
- Each unit features 4 Rear DB25 serial ports
- Dual front panel Gigabit Ethernet ports
- 1U rack mountable or tabletop compact design
- Rear M8 6-pin circular port for future expanded product features

4,ARTS, SGF, AIRCAT-500, Mode S, in addition to sync, async serial and LAN formats.

The RICI provides IP-based network connectivity via dual Gigabit Ethernet ports located on the front panel. Each RICI serves as the interface to 4-serial ports of data or the unit can also be used exclusively for LAN-to-LAN data formatting, filtering and/or data conversion. In the Serial-to-LAN data configuration, standard serial cables connect directly to the rear of each DB-25 connector, maintaining independent high speed connectivity.

RICI 5000: Real-Time Interface & Conversion Item (RICI) 5000





Technical Specifications

Serial Port Controls

• RS-232 (V.28), RS-422, X.21 (V.11), V35 (V.35 & V.28), EIA-530A (V.10 & V.11), RS-449/V.36 (V.10 & V.11), RS-485

Ethernet

• 10BASE-T, 100BASE-T, 1000BASE-T, IEEE-802.3

Protocols

 Synchronous, Asynchronous, HDLC/SDLC, Bi-Sync, Mono-Sync, TCP/IP, UDP/IP

Message Formats

 ASTERIX (e.g., CAT 01, 02, 33, 34, 48, and others), CD-2, ASR-9/11, Mode 4, Mode S, MAR, TPS75, ARTS, AIR-CAT500, SGF, ADS-B, custom, and more

Clock Sources

• DCE, DTE, Split Clock (RICI can generate and/or receive clock on each port)

Power

- Power usage: 12W maxs per unit
- 100-240 VAC, 2.0A Max, 50-60Hz

MTBF

• 759,232 Hours per Teclordia SR-332 (Issue 3)

Dimensions

Unit:

- Height: 1.61in / 40.90mm
 Width: 9.17in / 232.92mm
- Depth: 9.25in / 234.95mm

Populated 1U Chassis:

Height: 1.75in / 44.45mm
Width: 17in / 431.8mm
Depth: 9.25in / 234.95mm

Weight

- Single RICI: 3 lbsEmpty Sleeve: 3 lbs
- Fully Populated Chassis: 9 lbs

Environmental

- Storage Temperature: -50°C to +60°C
- Operating Temperature: 0°C to +50°C
- Relative Humidity Range: 10 90%, noncondensing
- Operating Altitude: -300' to 10,000' per MIL-STD-810G

Certifications and Compliance

- CE Marking
- FCC Part 15. Class B
- RoHS2 Directive 2011/65/EU
- ETL for Canada and US, 3023031
- UL/CSA/IEC/EN 60950-1
- UL/CSA/IEC/EN 62368-1



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