SixTrak IPm™

Industrial RTU

High-Performance Industrial RTU

The SixTrak ST-IPm-8460 Industrial RTU provides powerful control for many automation applications. With many serial and ethernet ports, the ST-IPM-8460 reliably controls processes in harsh environments.



No matter what the application, the ST-IPm-8460 can be easily configured to meet your needs. Dual power inputs and support for redundant Ethernet networks help increase uptime while a multitude of communication ports and supported protocols enable connectivity to a variety of field devices.

In addition to featuring an open source Linux programming platform, users can customize applications using IEC 61131-3 languages including structured text, ladder diagram, function block diagram, instruction list and sequential function chart. Advanced debugging and workbench features include version control, XML project item import, project creation/validation scripting, template creation, project visualization and extended protocol support, all designed to easily support large, complex projects across multiple devices.

c UL us LISTED E317425 · CE · Ex · ABS TYPE APPROVED PRODUCT · TYPE APPROVED PRODUCT DNV DNV.COM/AF · FC · RoHS

Applications

- Energy
- Oil & Gas
- Processing Plants
- SCADA
- Utilities
- Water/Wastewater

Product Highlights

- Dual Ethernet Network Support
- Built-in Data Logging
- Local Monitoring with Built-in I/O
- Multiple Serial Ports for Application Versatility
- Wide Operating Temperature for Harsh, Remote Locations
- Native Support for Industrial Protocols, Including Ethernet TCP/IP, Modbus TCP/UDP and Sixnet UDR

Features & Benefits

Highly Configurable

- Robust IEC 61131 Development Environment
- Open Linux Programming Platform
- Develop Application-specific Communication Drivers
- Choose from a Full Suite of I/O Modules to Adapt to Application Needs

Designed to Optimize Uptime

- Redundant Network and Controller Support
- Dual 10 to 30 VDC Power Inputs
- Peer to Peer Linking

Rugged and Reliable

- -40 to 70 °C Operating Temperature
- UL Class I, Div. 2
- ATEX Certification

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SixTRAK IPm Industrial RTU Specifications

Performance Specifications
Processor: Industrial PPC (32-bit)
Dynamic Memory (RAM): 512 MB (478 MB available)
Program Memory (Flash): 512 MB (272 MB for application data and programs)
Data Logging Memory (RAM): 8 MB (battery backed)

Switch Properties
Operation: Unmanaged
Number of MAC Addresses: 2
IEEE Compliance: 802.3u, 802.3x
Protocols: TCP/IP, IGMP, DHCP, Modbus UDP/TCP
See the website for a complete list of protocols available.
Latency (typical): 10 Mbps: 16 µs, 100 Mbps: 5 µs
Switching Method: Store-and-Forward
Maximum Throughput: 90 Mbps (Network 2)
MDIX Auto Sensing Cable
Auto Sensing Speed and Flow Control
MTBF: >820,000 hours per MIL-HNDBK-217F2

Power Input
Input Voltage: 10 to 30 VDC
Steady Input Current: 150 mA @ 24 V (6.2 W max.)
Inrush: 3.0 A / 60 µs @ 24 VDC
BTU/HR: 12.29

Communication Properties
Ethernet Ports
Independent Networks with Unique MAC & IP Addresses
Network 1 Port: One (1) shielded 10/100Base-T(X) port (full duplex)
Network 2 Ports: Five (5) shielded 10/100Base-T(X) ports
Serial Ports
Supports speeds up to 115,200 baud
RS-232 (Port A): RJ45 (TD, RD, CTS, RTS, CD, DTR, DSR, GND)
RS-232 (Port B): RJ45 (TD, RD, CTS, RTS, CD, DTR, DSR, GND)
RS-485 (Port C): Screw block (485+, 485-, GND) 2- wire half-duplex, isolated 1,500 Vrms
RS-232 (Port D): Screw block (TD, RD, RTS, CTS, GND) isolated 1,500 Vrms

Recommended Wiring Clearance
Front: 3" (7.62 cm)
Top: 2.5" (6.35 cm)

Network Media
10BaseT: ≥Cat3 cable
100BaseTX: ≥Cat5 cable

Certification & Compliances
Hazardous Locations: ISA12.12.01, CSA C22.2/213, Class 1, Division 2 Groups A, B, C, D
ATEX: IEC 60079-0, IEC 60079-7, Zone 2
Marine/Offshore: Rated per ABS
DNV Type Approved
Electrical Safety: UL 508, CSA C22.2/142, EN/IEC61010-1, CE
EMI Emissions: FCC part 15, ICES-003, Class A, EN61000-6-4, CE
EMC Immunity: EN61000-6-2, CE IEC61000-4-9, IEC61000-4-10, IEC61000-4-16
Flammability: UL 94V-0 materials

Environmental
Operating Temperature Range: -40 to 70 °C
Storage Temperature Range: -40 to 85 °C
Operating and Storage Humidity: 10% to 95% (non-condensing)
Operating Altitude: Up to 2000 ft
Shock: IEC60068-2-6; Half Sine, 31 G, 11 msec duration; IEC 60870-2-2 Class Cm
Vibration: IEC60068-2-27; 9-200 Hz 2 G, 200-500 Hz 1.5 G; IEC 60870-2-2

Mounting
Case Dimensions:
Height: 3.17" (8.05 cm)
Width: 4.75" 12.07 cm)
Depth: 3.00" (7.62 cm)
Weight: 0.75 lbs (0.34 kg)
Mount: DIN rail 35 mm or flat panel mount

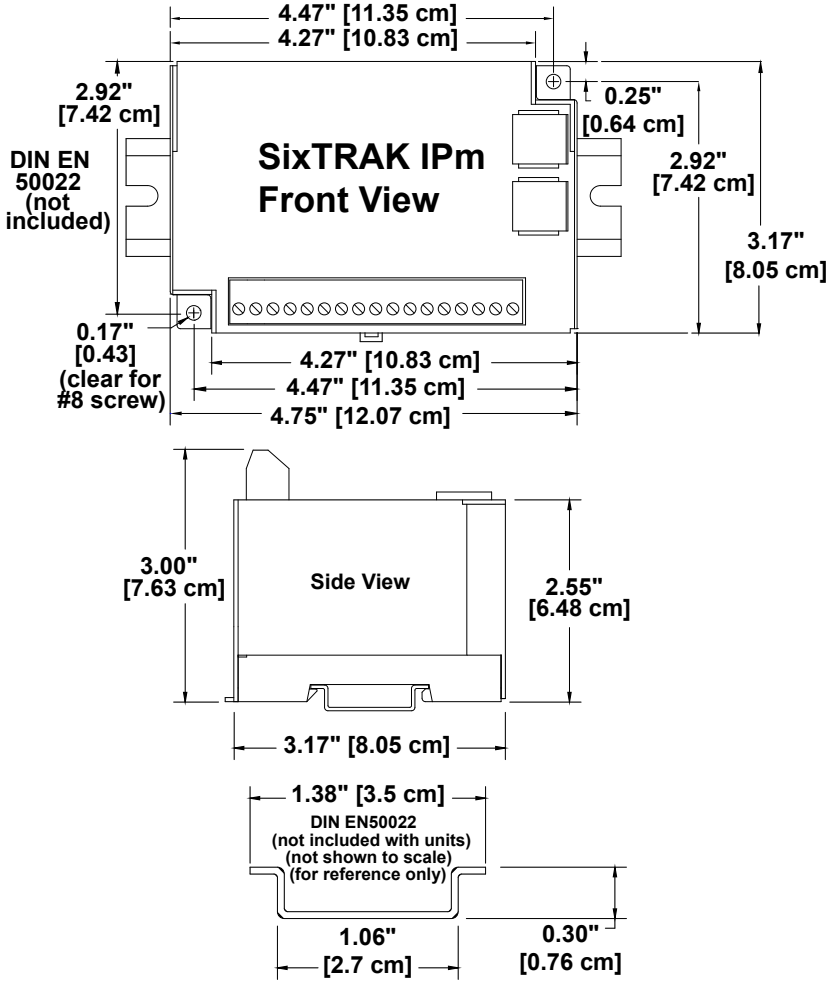
Warranty
2 years on design and manufacturing defects.

Specifications are subject to change.
Visit www.redlion.net for more information.

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SixTRAK IPm Industrial RTU Dimensions

DIMENSIONS In inches [cm]



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SixTRAK IPm Industrial RTU Ordering Guide

Main Unit

Part Number	Description
ST-IPM-8460	SixTRAK IPm Industrial RTU

Accessories

Part Number	Description
E2-MIX20884-D	EtherTRAK-2 I/O Module-32 Mixed Inputs/Outputs
E2-MIX24880-D	EtherTRAK-2 I/O Module-32 Mixed Inputs/Outputs
E2-MIX24882-D	EtherTRAK-2 I/O Module-34 Mixed Inputs/Outputs
E2-32DI24-D	EtherTRAK-2 I/O Module-32 24V Digital Inputs
E2-16DI24-D	EtherTRAK-2 I/O Module-16 24V Digital Inputs
E2-16DIAC-D	EtherTRAK-2 I/O Module-16 120VAC Digital Inputs
E2-32DO24-D	EtherTRAK-2 I/O Module-32 24V Digital Outputs
E2-16DO24-D	EtherTRAK-2 I/O Module-16 24V Digital Outputs
E2-16DORLY-D	EtherTRAK-2 I/O Module-16 Digital Output Relays
E2-16ISO20M-D	EtherTRAK-2 I/O Module-16 4-20mA Isolated Analog Inputs
E2-32AI20M-D	EtherTRAK-2 I/O Module-32 20mA Analog Inputs
E2-32AI10V-D	EtherTRAK-2 I/O Module-32 10VDC Analog Inputs
E2-16AI20M-D	EtherTRAK-2 I/O Module-16 Analog Inputs (4-20mA)
E2-16AI-8AO-D	EtherTRAK-2 I/O Module-16 Analog Inputs/8 Analog Outputs
E2-8AO20M-D	EtherTRAK-2 I/O Module-8 Analog Outputs
E2-16ISOTC-D	EtherTRAK-2 I/O Module-16 Isolated Thermocouple Inputs
E2-10RTD-D	EtherTRAK-2 I/O Module-10 RTD Inputs

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