RedLion®
BY HMS NETWORKS

ST Programmable Controller

Item number: ST-IPM-8460

The ST Programmable Controller delivers automated control and complete monitoring over remote sites. Couple it with I/O modules for more capability. The built-in Red Lion Workbench makes it easy to use, program and scale as your needs evolve. Designed for reliable operation in the harshest conditions.

Manage industrial processes remotely with a controller built for harsh settings

Features and benefits

Rugged and durable design

Operates in harsh and high-altitude environments across a wide temperature range. Thrives under high vibration and shock conditions and certified for use in hazardous locations.

Advanced debugging and diagnostic tools

Spot communication errors quickly with Modbus diagnostic registers. Monitor process states and track variables graphically from the Watch window.

Modular and compact design

Save hardware space using DIN-rail or flat panel mount and expand functionality with I/O modules as your application requirements change.

Connect with Ethernet and serial ports

Connect to SCADA systems and external devices from 6 Ethernet ports, 3 RS-232 serial ports and 1 RS-485 serial port.

Crimson® Control programming

Develop logic control easily. Simply add a plug-in Crimson Control module and leverage industry-standard IEC 61131 programming languages.

Programming ease and flexibility

Standard programming software supports IEC61131-3 languages. Build a Sequential Function Chart, Ladder Diagram, Structured Text, Instruction List and Function Block Diagram.

Control your system from a user-friendly GUI

Configure, debug, monitor and maintain remote sites from Red Lion Workbench's easy-to-use interface.

Add I/O when you need it

Compatible and scalable with a variety of process quality E2 and E3 I/O modules.

Automated data logging and control

Intelligent data logging and control in one device. Use the Red Lion Workbench to customize data logging and alarms.

ST Programmable Controller

General

Net Weight (g)	0.01
Packed Width (mm)	152.4
Packed Height (mm)	101.6
Packed Depth (mm)	203.2
Packed Weight (g)	454.01
Operating Temperature °C Min	-40
Operating Temperature °C Max	70
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Relative Humidity	10 to 95% relative humidity (non-condensing).
Power Consumption (W)	3.6
Input Voltage (V)	10 to 30 VDC
Maximum Installation Altitude (m)	3048
Mounting	DIN rail mount (bracket included), Wall mount
Housing Materials	Polycarbonate
Packaging Material	Cardboard
Warranty (years)	3

Identification and Status

Product ID	ST-IPM-8460
Country of Origin	United States of America (the)

ST Programmable Controller

Identification and Status

HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

Physical Features

Connectors / Input / Output	2x RS232, 1x RS485, 2x RJ45
Top Wiring Clearance (mm)	63.5
Front Wiring Clearance (mm)	76.2
SD Card Slot	No
Flash Drive	Yes
Contains Battery	Yes

Bluetooth Features

Net Data Throughput	90 Mbps

Certifications and Standards

RoHS Compliant	Yes
CE	Yes
FCC	Yes
UKCA	No
UL	Yes
ATEX	Yes
ATEX Information	IEC 60079-0, IEC 60079-7, Zone 2
DNV	No
KC	No

Certifications and Standards

EMC	Yes
Mean Time Before Failure (MTBF)	> 820,000 hours
Environment	EN61000-6-2
Vibration and Shock	IEC60068-2-6; Half Sine, 31 G, 11 msec duration; IEC 60870-2-2 Class Cm; IEC60068-2-27; 9-200 Hz 2 G, 200-500 Hz 1.5 G; IEC 60870-2-2