FlexEdge® Automation Controller 1-Sled with HDMI output

Item number: DA50A1BNN0000040

The FlexEdge Automation Controller 1-Sled with HDMI Output makes your data actionable. Modular hardware, intuitive configuration software and network security makes it easy to connect legacy and newer equipment, transfer data to cloud-based systems and monitor equipment remotely. Use HDMI to visualize productivity dashboards locally on a smart TV.



Unmatched data access, network security and real-time visualization in an all-in-one edge IIoT platform

Features and benefits

Simplifyies application complexity with one device

Use a single device as a networking gateway, protocol converter and/or automation controller. As networks and applications evolve and operations expand, adapt easily with field-upgradable software.

Designed with security in mind

Advanced network security helps prevent unauthorized access to your network. Built-in firewall, encrypted communication, password policies and RADIUS authentication keep networks and data secure.

Flexible connectivity

Customize systems to meet new connectivity needs and standards. Plug-and-play communications sleds, including dual-SIM cellular, Wi-Fi, Ethernet, serial and USB.

Enable data analytics

Access data faster for productivity and operational efficiency gains. Connect FlexEdge® to a SQL server, SCADA system, or to the cloud to deliver data to enterprise data mining and analytical tools.

Seamlessly integrate OT and IT systems

All the security features you need to safely integrate OT with enterprise IT systems. RADIUS authentication, LDAP, and other user authentication systems.

Make data actionable with local visualization

Deploy customized, real-time productivity dashboards to a smart TV locally. Choose from 6 common sample productivity templates or use Crimson software to easily adapt displays to your requirements.

Rugged and durable industrial design

Built to operate in harsh, hazardous environments and withstand extreme temperatures from -20 ° C to 75 ° C. Industry attested with HazLoc, UL Class 1, Division 2 and ATEX/IECEx and ABS certifications.

Connect legacy and new equipment

Use Crimson's up-to-date suite of over 300 drivers to access data for your application. Connect legacy protocols to open standards such as OPC UA and MQTT to share data with enterprise systems.

Powerful low/no code programming environment

Crimson® configuration software converts 10 protocols from 300+ supported drivers simultaneously. Or write your own code using the C-like programming environment with IEC61131 language support.

Fast and easy OT deployment

Drag-and-drop configuration takes the difficulty out of device and network setup. Follow a simple, step-by-step process to configure communications protocols and cloud connectivity quickly.

Monitor remote assets

Use an advanced webserver, diagnostics and VPN connectivity to monitor and set up alerts for remote assets. Send notifications, reports and data logs to specified users with the built-in mail manager.

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General

Net Weight (g)	0.01
Packed Width (mm)	215.9
Packed Height (mm)	127
Packed Depth (mm)	215.9
Packed Weight (g)	418.01
Operating Temperature °C Min	-20
Operating Temperature °C Max	75
Storage Temperature °C Min	-20
Storage Temperature °C Max	85
Relative Humidity	0 to 85 % max relative humidity, non-condensing
Power Consumption (W)	0
Input Voltage (V)	12 to 24 VDC +/- 15%, Class 2 Source
Maximum Installation Altitude (m)	2000
Mounting	DIN rail mount (bracket included)
Housing Materials	Polycarbonate
Packaging Material	Cardboard
Warranty (years)	1

Identification and Status

Product ID	DA50A1BNN0000040
Country of Origin	United States of America (the)

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

Physical Features

Connectors / Input / Output	Five-pin top mounted connector Wire Strip Length: 0.3" (7.5 mm) Wire Gauge Capacity: 12 to 24 AWG (3.31 to 0.20 mm2) copper wire only Torque: 4.4-5.3 inch-lbs (0.5-0.6 N-m), 1x RS232, 1x RS485/422, 2x RJ45, 1x HDMI port, 1x USB Type B
SD Card Slot	No
Flash Drive	Yes
Contains Battery	No

Certifications and Standards

Protection Class IP	IP30
RoHS Compliant	Yes
CE	Yes
FCC	No
UKCA	Yes
UL	Yes
ATEX	Yes
DNV	No
KC	No
Vibration and Shock	IEC 60068-2-27, 15 g; IEC 60068-2-6: Operational 5-500 Hz, 2 g