



Allen-Bradley

Product Profile

ControlLogix™ 1756-EWEB Enhanced Web Server Module

Bulletin 1756



Overview

The new 1756-EWEB (EWEB) module for Allen-Bradley ControlLogix® controllers supports EtherNet/IP communications and offers a suite of Web capabilities that enable users to view plant-floor data via Web pages, receive e-mail or pager-based alarm notifications, and transmit information to a variety of software applications using Extensible Markup Language (XML) data. It is the first module to bring this type of Web functionality to the Logix control platform.

Key Features

- seamless bridging/routing using the Common Industrial Protocol (CIP)
- Data access (read/write) to local controllers via a Web browser
- Web page password privileges
- e-mail capability
- Embedded module/network diagnostic Web pages
- custom user-downloadable Web pages

Benefits

In the past, users required additional software loaded on remote computers to view control information from a manager's office or other remote location. With the EWEB module, users can view control information anywhere, anytime from a standard Web browser such as Microsoft Internet Explorer - allowing greater accessibility and collaboration of information from the shop floor to the top floor.

The EWEB serves preformatted and custom Web pages containing control system data. Users authorized to access the information can do so on any computer with Internet access and a browser. This feature allows plant managers, engineers or maintenance specialists to monitor control system data at their convenience.

In addition, users can create custom Web pages with the EWEB module, a feature which original equipment manufacturers (OEMs) can use to add more value to their machines. With these Web pages, OEMs and others can provide customized information and support by combining control data from users' machines with links to support services, machine documentation or online spare parts order forms, for example.

By programming the appropriate logic, the EWEB module also may be used to send messages to notify users of critical events or report status via e-mail or a paging system (with compatible e-mail programs).

Plus, the module is XML-based, meaning users can share information with other software applications without the need for middleware. And the XML control information provided by the EWEB module can be transmitted to computers running any operating system, which is important for mixed computing environments.

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ControlLogix 1756-EWEB Enhanced Web Server Module Specifications

Mechanical	
Module Location	Any slot in the ControlLogix chassis
Ethernet Connector	RJ45 Category 5
Electrical	
Maximum Backplane Current Load	700mA @ 5.1V dc 3mA @ 24V dc from I/O chassis backplane
Power Dissipation	3.65W maximum
Isolation Voltage (continuous voltage withstand rating)	50V
ESD Immunity	IEC 61000-4-2 : 6kV contact discharges, 8kV air discharges
Radiated RF Immunity	IEC 61000-4-3 : 10V/m with 1kHz sine-wave 80%AM from 30MHz to 10000MHz
EFT/B Immunity	IEC 61000-4-4 : ±2kV at 5kHz on communication ports
Surge Transient Immunity	±2kV line-earth (CM) on shielded ports
Conducted RF Immunity	IEC 61000-4-6 : 10Vms with 1kHz sine-wave 80% AM from 150kHz to 80MHz
Conductors	Wiring Category -2 (on communication ports)
Environmental	
Operational Temperature	IEC 60068-2-1 (Test Ad, Operating Cold) IEC 60068-2-21 (Test Bd, Operating Dry Heat) IEC 60068-2-14 (Test Nb, Operating Thermal Shock) 0 to 60°C (32 to 140°F)
Storage Temperature	IEC 60068-2-1 (Test Ab, Unpackaged Non-Operating Cold) IEC 60068-2-2 (Test Bb, Unpackaged Non-Operating Dry Heat) IEC 60068-2-14 (Test Na, Unpackaged Non-Operating Thermal Shock) 40 to 85°C (-40 to 185°F)
Relative Humidity	IEC 60068-2-30 (Test Db, Unpackaged Non-Operating Damp Heat) 5 to 95% non-condensing
Vibration	IEC 60068-2-6 (Test Fc, Operating): 2g @ 10-500Hz
Operating Shock	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 30g
Non-Operating Shock	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 50g
Enclosure Type Rating	None (open-style)
Certifications	UL listed, CSA certified for Class 1 Division 2, group A, B, C, D hazardous locations, CE marked, C-Tick, EtherNet/IP
Emissions	CISPR 11: Group 1, Class A

Related Web-enabled Products

All Rockwell Automation EtherNet/IP products support a Web server and provide diagnostic capabilities. Over time, we have continued to extend these capabilities to include the ability to access data tables, create custom Web pages, initiate phone or e-mail messages, and, now, with the EWEB module, the ability to transmit information to a variety of software applications using XML data. Related Rockwell Automation Web-enabled products include the following. Contact your local sales representative or distributor for more information.

- EtherNet/IP PLC-5/20, -5/40, -5/80 Controllers
- EtherNet/IP SLC 5/05 Controllers
- PLC-5 EtherNet/IP Interface Module
- Ethernet Interface Modules, 1761-NET-ENI/W
- RSView32 Messenger
- RSView32 Web Server
- RSProduction Portal

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