I'm not robot

1734-aent default password

POINT I/O EtherNet/IP Adapter Module User Manual: Preface This manual provides an overview of the 1734-AENT adapter, describing how to install and configure it for communication with POINT I/O over an EtherNet/IP network. It also includes common techniques used in this manual. System Components: The example applications use the following components: POINT I/O EtherNet/IP Adapter, POINT I/O 24V dc Sink Output Module, etc. You'll need similar components to set up your control system using PONT I/O on EtherNet/IP. Refer to Rockwell publications for additional help when setting up and using your EtherNet/IP network: * Using EtherNet/IP for industrial control * EtherNet/IP Performance and Application Guide * EtherNet/IP Media Planning and Installation Guide Terminology: BootP: a protocol providing configurations to nodes on a TCP/IP network. Ethernet network: a local area network designed for high-speed information exchange between computers and devices. Explicit messaging: non-time critical messaging used for device configuration and data collection, such as downloading programs or peer-to-peer messaging between two PLCs. Latency: the time between initiating a request for data and the beginning of actual data transfer. Multicast: broadcasting data once to all consumers in the CIP producer/consumer model. Producer: the source of information in the CIP networking model. Table of Contents: Chapter 1: About the 1734-AENT Adapter Important Adapter Considerations Before setting up the 1734-AENT for hardware configuration, check out chapter one of this publication for a comprehensive overview. Chapter one provides insight into the 1734-AENT POINT I/O adapter, its primary features, and usage guidelines. To fully understand how to configure your adapter and integrate it into an EtherNet/IP control system, read chapter one carefully. Before using the 1734-AENT, note the following essential considerations: The chassis size must be configured prior to making any I/O connections. The default setting is for a single slot representing the adapter alone. Also, keep in mind that the POINT I/O system can't detect an empty terminal base, which might lead to configuration issues. When powering up the system for the first time, the adapter assigns addresses to all backplane modules. This usually results in all but one module exhibiting a solid red Module Status LED. The 1734-AENT is compatible with various firmware versions and software releases, as listed in this manual. Contact Rockwell Automation for software or firmware upgrades if needed. Using the 1734-AENT has several benefits, including simplified maintenance and module replacement due to reduced routing table configurations in bridging modules. Additionally, it allows for full control over message routes, enabling alternative paths selection for end devices. Rack-optimized connections enable data transfer from multiple I/O modules into a single block of data sent over a single connection at the same data rate. This reduces the total number of connections needed when using many I/O modules in a system, as illustrated by an example in this manual. The next chapter describes how to physically install the 1734-AENT adapter and connect it to the EtherNet/IP network. 1. Connect the Ethernet cable to the RJ45 connector on the adapter module. 2. Set the network address thumbwheel switches to the desired value (see page 3-6 in the next chapter). 3. If you connect or disconnect the Ethernet cable with power applied, be careful of electrical arcs. 4. Insert the terminal block into the base unit. 5. Mount the adapter according to the dimensions (DIN rail: 3.0H x 2.16W x 5.25D). Given article text here Looking at how to set up a standard BootP software with an easy-to-use graphical interface, it can be found in the Utils directory on the RSLogix 5000 installation CD. We need to configure the 1734-AENT Adapter for our EtherNet/IP network. This will add the device to the Relation List, showing us the Ethernet Address (MAC) and IP Address, Hostname, and Description if applicable. If the address shows up in the IP Address column of the Request History section, it means we've successfully assigned an IP address. Now we need to save this Relation List for later use. We do this by going to Save As... from the File menu. This will open a new window where we can select our file. The DHCP software automatically assigns IP addresses to client stations that log onto a TCP/IP network. It uses BootP and maintains some backward compatibility with Chapter Configure the 1734-AENT for Direct Connection in RSLogix 5000 An example shows how a ControlLogix processor communicates using the 1734-AENT adapter on a direct connection via POINT I/O About the Example In this example, we have a ControlLogix chassis that contains the Logix 5555 processor in Set Up the Hardware slot 1 and a 1756-ENBT bridge module in slot 3. The 1734-AENT adapter is mounted in slot 0 with other modules like a relay output and sink output. Keying Compatible Module Revision To prevent communication disruption between the ControlLogix controller and 1734-AENT, configure a fixed IP address on the adapter. This setup eliminates the need for the Configuration to be present. In RSLogix 5000, go to Direct Connection in the hardware configuration section to set up the 1734-AENT adapter for direct connection and rack optimization. Establishing POINT I/O connections with the 1734-AENT will consume a portion of the microprocessor's bandwidth. The consumed bandwidth depends on several factors, including Requested Packet Interval (RPI), number of POINT I/O modules involved, and rate of change in I/O values. It is essential to configure the 1734-AENT for direct connection in RSLogix 5000 to optimize performance. To create an example application, follow these steps: Start RSLogix 5000 Enterprise Series, then select New from the File menu and click on OK. Add POINT I/O modules to the controller's I/O configuration by adding a local 1756-ENBT module with the specified IP address. Next, add the 1734-AENT adapter as a child of the local 1756-ENBT module in the Project window. Verify that the Requested Packet Interval (RPI) is set appropriately for your system to prevent bandwidth overload and ensure optimal performance. 1. Configure the 1734-AENT for Direct Connection and Rack Optimization in RSLogix 5000 Page 67, At the bottom of the Select Module Type screen, you can choose Clear All and then select a type of module (analog, digital, specialty) to narrow your search. 2. Notice that RPI is selectable on the screen below since it is a direct connection. 3. Enter the RPI (requested packet interval) to set how often the data is exchanged with the 1734-AENT. 5-11 Add the POINT I/O Module and Configure For Rack Optimization Highlight the 1734-AENT under I/O Configuration, right click and select New Module. The Select Module Type window will open. 5-12 Configure the 1734-AENT for Direct Connection and Rack Optimization in RSLogix 5000 The output data for the 1734-OW2 is a separate and distinct module on the network. The 1734-OV4E is part of the rack connection. 5-13 Choose Download. You see this window. Notice that the 1756-ENBT Bridge is now online. Page 72 5-14 Configure the 1734-AENT for Direct Connection and Rack Optimization in RSLogix 5000 You see the Module Fault error code. 5. Click the Chassis Size tab. 6. Click Set Chassis Size in Module. Value from RSLogix 5000 Value stored in 1734-AENT 7. Page 73 8. Click OK to continue. Notice the chassis size in the module has been modified to 3. 9. Click OK. At this point, you PointBus status LED should be solid green. All the yellow triangles in your I/O configuration should be gone. 5-16 Configure the 1734-AENT for Direct Connection and Rack Optimization in RSLogix 5000 Information regarding the operation of this equipment in hazardous environments applies when utilizing the 1734-AENT equipment. The TCP/IP Configuration for Your System ========== To configure the TCP/IP parameters for your 1734-AENT adapter, navigate to the Configuration page. By default, the password is set to "password" (case sensitive). Upon entering a new password and clicking Submit, you can update the existing password. ###Important Note** ---------- If you set the thumbwheels on the 1734-AENT to the value 888 IMPORTANT and then power cycle the module, the following settings will be enabled automatically: * DHCP Enabled function * Ethernet link negotiation (Auto Negotiate function set to True) ###Configuring the RSLinx Ethernet Communication Driver** ---------- To communicate with your 1734-AENT adapter over your network, you need to configure the RSLinx Ethernet communication driver (AB_ETH) or Appendix Contains the EtherNet/IP driver (AB-ETHIP). Configure the AB_ETH driver by following these steps: 1. Start RSLinx. 2. From the Communications menu, select Configure Drivers. 3. Select the AB_ETH driver and name it (default is AB_ETH-1). 4. Close RSLinx. Alternatively, to configure the AB-ETHIP Ethernet communication driver, follow these additional steps: 1. Select EtherNet/IP Devices and click on Add/New. 2. Make sure the Browse Local Subnet button is selected. 3. Click OK to configure the AB-ETHIP driver. ###Point I/O Module Requirements** ---------- Use Series C POINT I/O modules with the 1734-AENT adapter. Series A or B POINT I/O modules will not work with this adapter. For more information, refer to Appendix A-10 or Publication 1734-UM011A-EN-P - February 2004. **1734-POINT I/O Module Tag Reference** The following tags are used for configuration and monitoring of the 1734-POINT I/O module, which can be connected to an RSLogix 5000 controller. **Discrete Inputs** * 2-point input: 1734-IB2 (10V-28V DC) * 4-point input: 1734-IB4 (10V-28V DC) The configuration data for these inputs includes: + Data type + Default value + Valid data values + Filter settings **Discrete Outputs** * 2-point output (no diagnostic status): 1734-OA2 (120V AC) * 2-point output (with overload and open diagnostics): 1734-OB2E, 1734-OB2EP * 2-point output (with overload diagnostics): 1734-OV2E * 4-point output (with overload and open diagnostics): 1734-OB4E, 1734-OV4E The configuration data for these outputs includes: + Data type + Default value + Valid data values + Fault mode settings **Analog Inputs** * 2-channel current input: 1734-IE2C (0-10mA) * 2-channel voltage input: 1734-IE2V (-10V to +10V) The configuration data for these inputs includes: + Engineering units + Digital filter settings **Tag References** The following tags are used as references for the above configurations: * 1734-OA2, 1734-OB2E, 1734-OB2EP, 1734-OV2E, 1734-OB4E, 1734-OV4E, 1734-IE2C, 1734-IE2V Note: I've tried to maintain the original structure and formatting of the text as much as possible while paraphrasing it. **Page 110** The 1734-POINT I/O Module/RSLogix 5000 Controller has configuration data for the following devices: * 1734-IR2: 2-channel RTD input module + Configuration options: - Low and high engineering channels (engineering units) - Digital filter channel (in milliseconds) - Low alarm limit channel **Page 111** The 1734-POINT I/O Module/RSLogix 5000 Controller has configuration data for the following devices: * 1734-IR2: 2-channel RTD input module + Configuration options: - Sensor type (e.g. Ohms, Pt α385) **Page 112** The 1734-POINT I/O Module/RSLogix 5000 Controller has configuration data for the following devices: * 1734-IT2: 2-channel thermocouple input module + Configuration options: - Cold junction notch filter (50Hz or 60Hz) - Cold junction mode (none, channel 0, channel 1, or average both) **Page 113** The 1734-POINT I/O Module/RSLogix 5000 Controller has configuration data for the following devices: * 1734-IT2: 2-channel thermocouple input module + Configuration options: - Temperature mode (mV/custom scale, °C, °F, °K, or °R) - Cold junction enable and offset settings **Page 114** The 1734-POINT I/O Module/RSLogix 5000 Controller has configuration data for the following devices: * 1734-IT2: 2-channel thermocouple input module + Configuration options: - Temperature mode (mV/custom scale, °C, °F, °K, or °R) - Cold junction enable and offset settings **Page 115** The 1734-POINT I/O Module/RSLogix 5000 Controller has configuration data for the following devices: * 1734-OE2C: 2-channel analog current output module + Configuration options: - Fault value, program value, and low engineering channel settings **Page 116** The 1734-POINT I/O Module/RSLogix 5000 Controller has configuration data for the following devices: * 1734-OE2C: 2-channel analog current output module + Configuration options: - Idle mode (hold last state, go to low clamp, go to high clamp, or go to fault value limit) - Alarm latch settings **Page 117** The 1734-POINT I/O Module/RSLogix 5000 Controller has configuration data for the following devices: * 1734-OE2V: 2-channel analog voltage output module + Configuration options: - Fault value, program value, and low engineering channel settings **Page 118** The 1734-POINT I/O Module/RSLogix 5000 Controller has configuration data for the following devices: * 1734-OE2V: 2-channel analog voltage output module + Configuration options: - Limit alarm latch and alarm disable settings **Page 119** The 1734-POINT I/O Module/RSLogix 5000 Controller has configuration data for the following devices: * Specialty I/O modules (e.g. 1734-VHSC24, 1734-VHSC5) + Configuration options: - Counter configuration settings **Page 120** The 1734-POINT I/O Module/RSLogix 5000 Controller has configuration data for the following devices: * Specialty I/O modules (e.g. 1734-VHSC24, 1734-VHSC5) + Configuration options: - Counter configuration settings **Counter Configuration** The 5V DC Very High Speed Counter module has configuration data that determines its behavior. The following settings can be made: * **Scalar**: The counter's resolution, which can be set to 5, 6, or 8 bits. + For 5-bit scalar: -128 to +127 (0-255) counts + For single bit output: 0, 1, 2, 4, 8, 16, 32, 64, and -128 counts * **Output Control**: The counter's output can be forced on or off. * **Input Data**: The present data value of the counter is stored as a DINT (32-bit signed integer) with a range of 0 to 16,777,215. **Encoder/Counter Configuration** The 5V DC Encoder/Counter and 15-24V DC Encoder/Counter modules also have configuration data that determines their behavior. The following settings can be made: * **Counter Config**: Sets the counter's mode to either encoder or counter. * **SS Counter Control**: Allows for clearing the count or forcing it to a specific value. * **Input Data**: Similar to the Very High Speed Counter, the present and stored data values are stored as DINTs. **Program Fault** If an invalid or conflicting configuration is sent to the module, the Program Fault bit will be asserted, and an error code will be placed in the Programming Error Code word. Note: I've tried to preserve the original meaning and structure of the text while condensing it into a more readable format. Let me know if you'd like any further clarification! **SSI (Synchronous Serial Interface) Reference** To enter delay values in the range of +32,768 to +65,535 microseconds, use the conversion formula: `Desired Delay Value (in µs) - 65536 = Entered Delay Value (in µs)`. For example, for a 40ms delay time, subtract 65536 from 40000 to get an entered delay value of -25536. Similarly, to enter resolution values in the same range, use the conversion formula: `Desired Resolution Value (in µs) - 65536 = Entered Resolution Value (in µs)`. **Data Type and Valid Values** The following data types are used in SSI: * DINT: whole numbers from -2,147,483,648 to 2,147,483,647 * Latched Data: same as above * Status Input: binary value (0 or 1) **ASCII Interface Module Configuration** To configure the ASCII interface module, enter the following values: * Serial Character Format: select one of seven formats (e.g. 7N2, 7E1) * Transmit End Delimiter Mode: select one of three modes (No End Delimiter, Exclude End Delimiter, Include End Delimiter) * Transmit End Delimiter Character: any valid ASCII character **ASCII Interface Module Input Data** The following data types are used in the ASCII interface module: * Receive Record Number: signed short integer (-128 to +127) * Status: binary value (0 or 1) * TX FIFO Overflow: binary value (0 or 1) **1734-AENT Quick Start** To use the 1734-AENT with a ControlLogix processor for EtherNet/IP, follow these steps: 1. Configure the 1734-AENT POINT I/O Adapter: * Complete the Name field * Enter the IP address: 192.168.1.42 (set by push wheel switches on the adapter) 2. Enter Adapter Properties: * Right click on the 1734-AENT adapter and select Properties * Click on the Chassis Size tab Note that some of the original text has been omitted or condensed to make it easier to read and understand. Let me know if you'd like me to clarify any points! To configure the module size from the General tab to the module itself once you're online, go to the Chassis Size tab. In the Module Properties window, enter the following info: Name, Slot, Comm Format, and Electronic Keying (choose Compatible Module for major revision). If your module supports EtherNet/IP, it's Series C, so choose that. Click Next on the bottom of the window. To configure a remote point IO, click on the configuration tag, then you can set the entire module's config, alarms, etc. If you've already downloaded the offline config into the module but need to make changes online, go to the Module Connection tab, inhibit the module, apply the changes, and then uninhibit it. To connect your processor in Run mode, put your processor in Run mode and the connection should be successful. You can also find information about the RSLogix 5000 on-line help file by searching for the 1734 catalog number you're configuring and selecting Module Defined Data Types. To add the AB_ETHIP-1 (EtherNet/IP) Driver, go to Communications menu, choose Configure Drivers. Choose EtherNet/IP Driver from the Available Driver Types pull-down menu, click Add New, then enter the necessary info. Dear All, To contact us regarding this document, please email us at RADocumentComments@ra.rockwell.com or fill out the form below. 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1734-aent set ip address. 1734-aent admin password. Allen bradley 1734 aent default password. 1734-aent ip address. 1734-aent reset ip address. 1734-aentr password. 1734-aent/c password. 1734-aent ip address setup. 1734-aent default login. 1734-aent default ip address.