



Toshiba S2T Setup Manual

Programmable controllers ethernet module

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Ethernet Setup for the S2T

Ethernet communications with the S2T CPU is done through the GEN651A Ethernet module.

Prior to using this module, it must be configured using the EtherSetup_E setup software. The

EtherSetup_E software is used to configure the network parameters (IP Address, Subnet Mask, and Multicast Addresses) in the GEN651A Ethernet module. When all the following

setup steps described below are completed, Ethernet connection to the S2T through the

GEN651A Ethernet module will be possible. There are two methods of connection:

- T-PDS (Toshiba Program Development Software).

This module must be setup 1

1, Install the **TOSHIBA** EtherSetup_E software on an MS Windows computer. See the installation instructions in the User's Guide for the Ethernet Module Parameter Setting Tool,

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Set the network parameters in the GEN651A module.

2.1 Set the DIP switches on the front of the EN6651A to enable setting the network parameters from the EtherSet_E. Set DIP Switches 7 & 8 to ON (Note: 7 & 8 are the top two switches).

2.2 Mount the EN651A on the S2T rack, then turn on power.

2.3 Connect PC and EN6651A with the V-Tool cable (standard RS232C cross cable).

2.4 Run the EtherSet_E software on the PC.

2.5 Click the Read button on the EtherSetup_E screen. The current settings are read from

the GEN651A and are displayed on the screen.

Setup GEN651 Ethernet Module

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before either of the connections methods are possible.

Programmable Controllers

● UDP/IP Socket Interface.

On reading a module for the

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time, settings will appear as shown to the left.

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Summary of Contents for Toshiba S2T

[Page 1](#) Mask, and Multicast Addresses) in the GEN651A Ethernet module. When all the following setup steps described below are completed, Ethernet connection to the S2T through the GEN651A Ethernet module will be possible. There are two methods of connection: ● T-PDS (Toshiba Program Development Software). ● UDP/IP Socket Interface. Setup GEN651 Ethernet Module This module must be setup 1 before either of the connections methods are possible.

[Page 2](#) 2.6 Click the Option button. Set the required parameters, then click the Write button to write into GEN651A module. 2.7 Close the EtherSetup_E software. DIP Switches 7 and 8 must

be left in the ON position for T-PDS to work through the GEN651A module. 2.8 Cycle Power on the GEN651A module.

[Page 3](#) Computer Ethernet Card Setup: The computer's Ethernet card must be setup first. Go to the Control Panel and double click on Network Connections. Find the Ethernet card, alternate click on it and then click on Properties. Note that the IP Address and Subnet Mask must be the same as set in T-PDS & the GEN651A (the last digit of the IP Address must be different however, it cannot be .1 The address of the GEN651A module is 172.

[Page 4](#) T-PDS Setup: In T-PDS under the Option Menu, select Communications. Set as follows: Using T-PDS, set the following in special register SW63: This setting can also be made in the ladder logic with a MOV instruction. This completes the T-PDS setup. T-PDS can now be connected to the S2E via Ethernet through the GEN651A Ethernet module.

[Page 5](#) UDP/IP Socket Interface: To use UDP/IP transmission, it is necessary to create a small program in the S2T. The program will utilize the SEND and RECV instructions. The general procedure is as follows: 1. Execute UDP socket open: The Specified Port number must be different from the Port number for T-PDS connection.

[Page 6](#) UDP Send: SEND instruction is used. ■[A SEND B]■ A: H3100 (fixed) B: Result status A+1: UDP send command (H0032) B+1: Error code A+2: Socket number (1 to 12) A+3: Receiver IP address (note 1) A+4: Ditto A+5: Receiver Port number A+6: Transmit data word size (1 to 1000) A+7: Source data table register type (note 2) A+8: Source data table register starting address...

[Page 7](#) UDP Receive: RECV instruction is used, [A RECV B] ■ ■ A: H3100 (fixed) B: Result status A+1: UDP receive command (H0033) B+1: Error code A+2: Socket number (1 to 12) A+3: Sender IP address (note 1) A+4: Ditto A+5: Sender Port number A+6: Receive data word size (1 to 1000) A+7: Destination data table register type (note 2)

[Page 8](#) When R0621 is set to ON, 100 data words are received from the sender (IP address = 192.0.0.5, Port number = 5000) and are stored in D2000 to D2099. When the operation is finished, R0621 is reset to OFF automatically. UDP Socket Close SEND instruction is used.

This manual is also suitable for:

Gen651a