

Toshiba GN-1040 Operator's Manual

Multifunctional digital systems, wireless lan module

18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	

Table of Contents

•

Troubleshooting

•

Bookmarks

•

Download this manual

Quick Links



Operator's Manual for

Wireless LAN Module GN-1040

Table of Contents

Next Page

Related Manuals for Toshiba GN-1040

Wireless modules Toshiba GN-1050 Operator's Manual

Multifunctional digital systems (57 pages)

Summary of Contents for Toshiba GN-1040

Page 1 MULTIFUNCTIONAL DIGITAL SYSTEMS Operator's Manual for Wireless LAN Module GN-1040...

Page 2: Precautions

(Revision B/G). Wireless Interoperability The TOSHIBA Wireless LAN products are designed to be interoperable with any Wire- less LAN products that is based on Direct Sequence Spread Spectrum (DSSS)/Orthog- onal Frequency Division Multiplexing (OFDM) radio technology, and is compliant to: •...

Page 3: Limitation Of Liability

Bluetooth[™] and Wireless LAN devices operate within the same radio frequency range and may interfere with one another. If you use Bluetooth[™] and Wireless LAN devices simultaneously, you may occasionally experience a less than optimal network perfor- mance or even lose your network connection. GN-1040 Operator's Manual — PRECAUTIONS...

Page 4: Regulatory Information

(10 MHz-300 GHz) Hereby, TOSHIBA TEC, declares that this GN-1040 is in compliance with the essential require- ments and other relevant provisions of Directive 1999/5/EC. TOSHIBA TEC vakuuttaa täten että GN-1040 tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä...

Page 5: Usa-Federal Communications Commission (Fcc)

Bij deze verklaart TOSHIBA TEC dat deze GN-1040 voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC. Par la présente TOSHIBA TEC déclare que l'appareil GN-1040 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE Par la présente, TOSHIBA TEC déclare que ce GN-1040 est conforme aux exigences essen-...

Page 6: Regulatory Notice For Channel Use In France

• The contents of this document are believed to be accurate, however if any discrep- ancies noted should be brought to the attention of TOSHIBA authorized dealer or service engineer. • Notwithstanding the foregoing, the manufacturer is unable to accept any claims for losses or lost profits, etc.

Page 7: Table Of Contents

<u>Page 8</u> –...

Page 9: Setting Up Wireless Network

Page 10: Before Setting Up Wireless Network

1. Setting Up Wireless Network Before Setting Up Wireless Network Thank you for purchasing the GN-1040 Wireless LAN Module. This product is a wireless LAN Module using the 2.4 GHz spectrum diffusion system, and is compatible with IEEE Standard 802.11g and 802.11b for wireless LAN.

Page 11: Determine The Ssid

PKCS#7 encoding format) in the equipment. This equip- ment uses the user certification file to authenticate the access rights to the wireless net- work, and the RADIUS server authenticate this equipment using the CA certification file. GN-1040 Operator's Manual — Before Setting Up Wireless Network...

<u>Page 12</u> If the wireless network is configured in the Infrastructure Mode and the Access Point supports 802.1x or WPAPSK, it is recommended to use 802.1x or WPAPSK rather than WEP. The WEP authentication is available for both the Infrastructure Mode and Ad Hoc Mode. GN-1040 Operator's Manual — Before Setting Up Wireless Network...

Page 13: Setting Up The Infrastructure Mode

Press the [USER FUNCTIONS] button on the control panel to enter the User Functions menu. Press the [ADMIN] button. • The ADMINISTRATOR PASSWORD screen is displayed. Press the [PASSWORD] button. • The input screen is displayed. GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

<u>Page 14</u> • The WIRELESS SETTINGS menu is displayed. Press the [WIRELESS SETTINGS] button. • The WIRELESS SETTINGS screen is displayed. NOTE: It may take a time to display the WIRELESS SETTINGS screen. GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

Page 15 The NETWORK TYPE screen is displayed. Press the [INFRASTRUCTURE] button and press the [NEXT] button. The SSID SETTINGS screen displayed. • Continue to the procedure for specifying the SSID. P.16 "Specify SSID" GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

Page 16: Specify Ssid

This Wireless LAN supports only channel 1 to 11. This equipment cannot connect the Access Point that uses the other channel than these channels. Please make sure to set the channel between 1 to 11 in the Access Point. GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

Page 17 The WIRELESS LAN SECURITY SETTINGS screen is dis- played. • Continue to the procedure for specifying the Security Mode. P.19 "Select Security Mode" Entering the SSID manually Press the [SSID] button. • The letter entry screen is displayed. GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

Page 18 The screen returns to the SSID SETTINGS screen. Press the [NEXT] button. The WIRELESS LAN SECURITY SETTINGS screen is dis- played. • Continue to the procedure for specifying the Security Mode. P.19 "Select Security Mode" GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

Page 19: Select Security Mode

Press the [802.1x] button and press the [NEXT] button. • The 802.1X AUTHENTICATION SETTINGS screen is displayed. Press the [EAP-TLS] button and press the [NEXT] button. • The WIRELESS AUTHENTICATION (EAP-TLS) screen is displayed. GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

Page 20 NOTE: In the EAP USER NAME, enter the user name in "User Name@FQDN" format. Example: wlanuser@toshiba.com Press the [NEXT] button. • The WIRELESS AUTHENTICATION -USER CERTIFICATION screen is dis- played. GN-1040 Operator's Manual — Setting Up the Infrastructure Mode... <u>Page 21</u> SUPPLEMENT: When pressing the [CA CERTIFICATE], the letter entry screen is displayed. Enter the value using the keyboard and digital keys, and press the [ENTER] button to set the entry. GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

<u>Page 22</u> The Dynamic WEP does not support the PEER KEY for IEEE802.1x. NOTE: The encryption intensity between each encryption is: AES(CCMP) > TKIP > Dynamic WEP GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

Page 23 If you want to change the settings, press the [PREV] button to move back to the screen that you want to change and then repeat the operation. Press the [YES] button to shut down the equipment. • The wireless settings apply after restarting the equipment. GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

<u>Page 24</u> [EAP USER NAME] Press this to enter the EAP user name that is used for the authentication. NOTE: In the EAP USER NAME, enter the user name in "User Name@FQDN" format. Example: wlanuser@toshiba.com GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

Page 25 [ON] button is selected, press the [RADIUS SERVER NAME] button to enter the RADIUS server name. NOTE: In the RADIUS SERVER NAME, enter the user name in "Server Name@FQDN" format. Example: wlanserver@toshiba.com GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

<u>Page 26</u> [AUTO]. When [AUTO] is selected, this equipment will use appropriate rate depending on the condition. Generally select [AUTO]. The communication may fail unexpectedly if you select a static transmit rate. GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

Page 27 PSKs are same between the Access Point and other wireless devices, the Access Point allows them to access the wireless network through the Access Point. Press the [WPAPSK] button and press the [NEXT] button. • The WIRELESS ENCRYPTION WPA-PSK screen is displayed. GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

<u>Page 28</u> [AUTO]. When [AUTO] is selected, this equipment will use appropriate rate depending on the condition. Generally select [AUTO]. The communication may fail unexpectedly if you select a static transmit rate. GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

Page 29 Point supports 802.1x or WPAPSK, it is recommended to use 802.1x or WPAPSK rather than WEP. Press the [WEP] button and press the [NEXT] button. • The WIRELESS ENCRYPTION - WEP screen is displayed. GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

<u>Page 30</u> [AUTO]. When [AUTO] is selected, this equipment will use appropriate rate depending on the condition. Generally select [AUTO]. The communication may fail unexpectedly if you select a static transmit rate. GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

Page 31 Therefore, it is recommended to set the security if it is possible. Press the [NONE] button and press the [NEXT] button. • The TRANSMIT POWER and RATE SETTING screen is displayed. GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

<u>Page 32</u> If you want to change the settings, press the [PREV] button to move back to the screen that you want to change and then repeat the operation. Press the [YES] button to shut down the equipment. • The wireless settings apply after restarting the equipment. GN-1040 Operator's Manual — Setting Up the Infrastructure Mode...

Page 33: Setting Up The Ad Hoc Mode

Press the [USER FUNCTIONS] button on the control panel to enter the User Functions menu. Press the [ADMIN] button. • The ADMINISTRATOR PASSWORD screen is displayed. Press the [PASSWORD] button. • The input screen is displayed. GN-1040 Operator's Manual — Setting up the Ad Hoc Mode... Page 34 The WIRELESS SETTINGS menu is displayed. Press the [WIRELESS SETTINGS] button. • The WIRELESS SETTINGS screen is displayed. Press the [ON] button and press the [NEXT] button. • The NETWORK TYPE screen is displayed. GN-1040 Operator's Manual — Setting up the Ad Hoc Mode...

<u>Page 35</u> 1 to 11 in the Access Point. Generally select [AUTO] for the channel. The SSID SETTINGS screen displayed. • Continue to the procedure for specifying the SSID. P.16 "Specify SSID" GN-1040 Operator's Manual — Setting up the Ad Hoc Mode...

Page 36: Specify Ssid

The letter entry screen is displayed. Enter the SSID using the keyboard and digital keys and press the [ENTER] button. • The screen returns to the SSID SETTINGS screen. Press the [NEXT] button. GN-1040 Operator's Manual — Setting up the Ad Hoc Mode...

<u>Page 37</u> 1. Setting Up Wireless Network The WIRELESS LAN SECURITY SETTINGS screen is displayed. • Continue to the procedure for specifying the Security Mode. P.19 "Select Security Mode" GN-1040 Operator's Manual — Setting up the Ad Hoc Mode...

Page 38: Select Security Mode

Enter the following items and press the [NEXT] button. WEP ENCRYPTION Select the bit length of the WEP key. KEY ENTRY METHOD Select the character code for the WEP key. GN-1040 Operator's Manual — Setting up the Ad Hoc Mode...

<u>Page 39</u> The shut down screen is displayed. SUPPLEMENT: If you want to change the settings, press the [PREV] button to move back to the screen that you want to change and then repeat the operation. GN-1040 Operator's Manual — Setting up the Ad Hoc Mode...

<u>Page 40</u> • Select the low transmit power if you want to limit the area that the wireless communication is enabled. If you do not have to limit the area, select [100%]. GN-1040 Operator's Manual — Setting up the Ad Hoc Mode...

Page 41 If you want to change the settings, press the [PREV] button to move back to the screen that you want to change and then repeat the operation. Press the [YES] button to shut down the equipment. • The wireless settings apply after restarting the equipment. GN-1040 Operator's Manual — Setting up the Ad Hoc Mode...

Page 42: Disabling Wireless Network

The input screen is displayed. Enter the administrator password and press the [ENTER] button.
The ADMIN menu is displayed. Press the [WIRELESS SETTINGS] button.
The WIRELESS SETTINGS menu is displayed. GN-1040 Operator's Manual — Disabling Wireless Network...

Page 43 The NETWORK TYPE screen is displayed. Press the [FINISH] button. • The shut down screen is displayed. Press the [YES] button to shut down the equipment. • The wireless settings apply after restarting the equipment. GN-1040 Operator's Manual — Disabling Wireless Network...

Page 44 1. Setting Up Wireless Network GN-1040 Operator's Manual — Disabling Wireless Network...

Page 45: Appendix

Page 46: Specification

Microsoft Windows 2000/2003 Server (WiFi Standard) *2 Supported RADIUS server Microsoft Windows 2000/2003 Server (WiFi Standard) Operation Mode Infrastructure Mode, Ad Hoc Mode Wireless ON/OFF Available Wired LAN/Wireless LAN Not Available Simultaneous Operation Wireless LAN/Bluetooth Available Simultaneous Operation GN-1040 Operator's Manual — Specification...

Page 47: Troubleshooting

This equipment uses the certificate that the RADIUS server does not support. Unknown ca Installed CA certificate cannot verify the server certifi- cate in the RADIUS server. Make sure to install a cor- rect CA certificate. Unable to connect GN-1040 Operator's Manual — Troubleshooting...

Page 48: Glossary

System to integrate wireless LAN with wired LAN LAN (Local Area Network) A network configured from mutual connections between computers within a limited area. Also called an "intranet" or "business or regional data communications network." GN-1040 Operator's Manual — Glossary...

<u>Page 49</u> A method of transmission in which signals that are normally transmitted over a given limited frequency band undergo narrow band modulation (primary modulation), then again diffuse modulation (secondary modulation) to intentionally diffuse the signal over a broad frequency spectrum. GN-1040 Operator's Manual — Glossary...

Page 50 2. Appendix GN-1040 Operator's Manual — Glossary...

Page 51: Index

INDEX INDEX INDEX...

Page 53 GN-1040 OME050016A0...

Page 54 MULTIFUNCTIONAL DIGITAL SYSTEMS Operator's Manual for Wireless LAN Module GN-1040 2-17-2, HIGASHIGOTANDA, SHINAGAWA-KU, TOKYO, 141-8664, JAPAN R05022079001-TTEC Ver01 2005-06 © 2005 TOSHIBA TEC CORPORATION All rights reserved...