



Network Configurator

User Guide

MAN-00115 R4

Network Configurator										
Scan IP Config Time Config Protocol Config Save Config File Restart Information										
Serial	Model Name	Interface Name	IP Address	Net Mask	Mac Address	Product Key	Status	Gateway Interface	Gateway Address	
1	KSQLS 1R 1OEM	Ethernet	192.168.0.121	255.255.255.0	00:40:9D:A4:F7:9C	1314134622326435	None	No	192.168.0.1	



1 Table of Contents

2	Introduction	3
2.1	Description	3
3	Network Configurator.....	4
4	File.....	4
4.1	Exit	4
5	Tools.....	5
5.1	Scan.....	5
5.2	IP Config.....	5
5.3	Time Config	6
5.4	Protocol Config.....	7
5.5	Save Config File	8
5.6	Restart	9
5.7	Information	10
6	Help.....	11
6.1	About	11
6.2	Shortcut.....	11



2 Introduction

2.1 Description

This document is intended for programmers/integrators who wish to configure the Ethernet module of their EasyGrid device.

While FISO's EasyGrid product family devices use Ethernet module to communicate with the outside world, practically any other protocol can be supported, as long as the correct gateway is used between the FISO device and the foreign protocol (IEC 61850, IEC 60870-5-104, DNP3, Modbus TCP-IP, etc.) This gateway is a third-party external piece of hardware that allows conversions between protocols. By the same way, different types of media can be supported like Ethernet and Optic.

EasyGrid devices are to be considered as *servers*, in that they provide information (or responses) when asked for them by a remote *client*. In this aspect, they are *slaves* on the communications channel they are connected to: they will *not* initiate communications on their own. This has architectural implications that must be planned for ahead of time. For example, if an alarm condition occurs in the appliance controlled by the embedded controller, it is up to the client to poll the controller to determine whether an alarm condition exists or not.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form, be it electronically, mechanically, or by any other means such as photocopying, recording, or otherwise, without the prior written permission of FISO. Information provided by FISO is believed to be accurate and reliable. However, no responsibility is assumed by FISO for its use nor for any infringements of patents or other rights of third parties that may result from its use. No license is granted by implication or otherwise under any patent rights of FISO.

FISO's Commerce and Government Entities (CAGE) code under the North Atlantic Treaty Organization (NATO) is L0294.

The information contained in this publication is subject to change without notice.

© 2022 FISO Technologies Inc.

Words that FISO considers trademarks have been identified as such. However, neither the presence nor absence of such identification affects the legal status of any trademark.

Units of measurement in this document conform to SI standards and practices.

Fiso Technologies Inc.
500, Ave St-Jean-Baptiste, suite 195
Québec (Québec)
G5E 5R9, Canada
Tel : +1 418 688 8065
Fax : +1 418 688 8067
support@fiso.com
www.fiso.com



3 Network Configurator

As its name implies, this software is used to configure the network parameters of FISO's EasyGrid product family devices.

Use **Scan** to detect EasyGrid devices on the network.

- Detected devices are listed in the Network window.
- Select a device before accessing the software's other functions.

Use **IP Config** to change the IP settings of the selected device.

Use **Time Config** to set SNTP server IP address.

- Please make sure to select the configuration file corresponding to the selected device's configuration (number of channels, number of relays and communication protocol).

Use **Protocol Config** to configure the communication protocol parameters of the selected device.

- Please make sure to select the configuration file corresponding to the selected device's configuration (number of channels and number of relays).

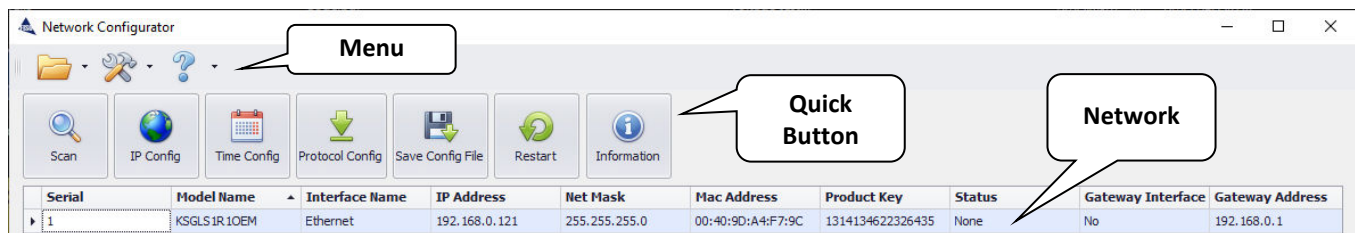
Use **Save Config file** to save configuration file with the configuration parameters you have made to the selected device.

- For example if you use the IEC 61850 protocol, that will save the ICD file with the configured parameters like the IED name, Access Point Name, etc.

Use **Restart** to restart the selected device.

Use **Information** to read the selected device's Ethernet module's information.

All functions provided by quick buttons are also accessible from the **Tools** menu.



4 File

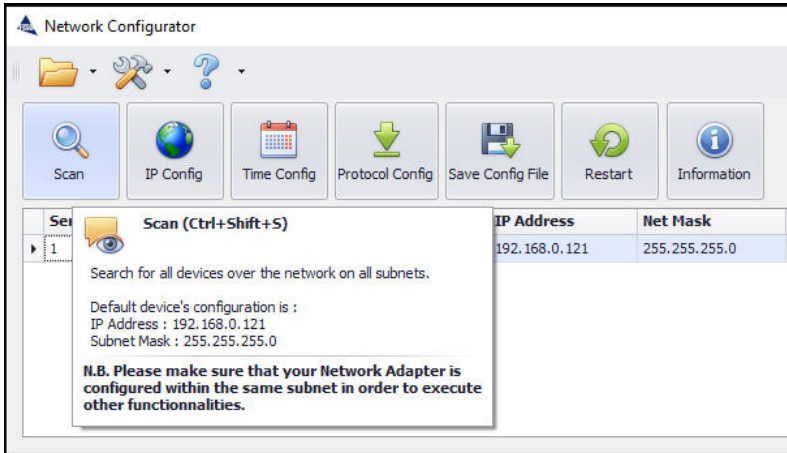
4.1 Exit

Image	Description
	This functionality is use to Exit the software

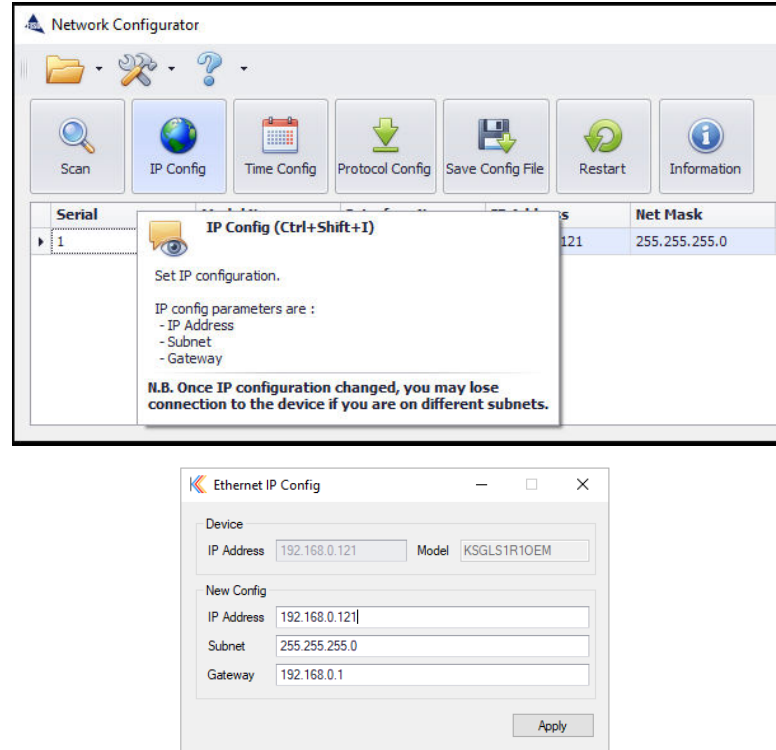


5 Tools

5.1 Scan

Image	Description						
 <table><tr><th>Serial</th><th>IP Address</th><th>Net Mask</th></tr><tr><td>1</td><td>192.168.0.121</td><td>255.255.255.0</td></tr></table>	Serial	IP Address	Net Mask	1	192.168.0.121	255.255.255.0	 Scan (Ctrl+Shift+S) Search for all devices over the network on all subnets. Default device's configuration is : IP Address : 192.168.0.121 Subnet Mask : 255.255.255.0 N.B. Please make sure that your Network Adapter is configured within the same subnet in order to execute other functionalities.
Serial	IP Address	Net Mask					
1	192.168.0.121	255.255.255.0					

5.2 IP Config

Image	Description						
 <table><tr><th>Serial</th><th>IP Address</th><th>Net Mask</th></tr><tr><td>1</td><td>192.168.0.121</td><td>255.255.255.0</td></tr></table> Ethernet IP Config Device IP Address: 192.168.0.121 Model: KSGLS1R10EM New Config IP Address: 192.168.0.121 Subnet: 255.255.255.0 Gateway: 192.168.0.1 Apply	Serial	IP Address	Net Mask	1	192.168.0.121	255.255.255.0	IP Config (Ctrl+Shift+I) Set IP configuration. IP config parameters are : - IP Address - Subnet - Gateway N.B. Once IP configuration changed, you may lose connection to the device if you are on different subnets.
Serial	IP Address	Net Mask					
1	192.168.0.121	255.255.255.0					

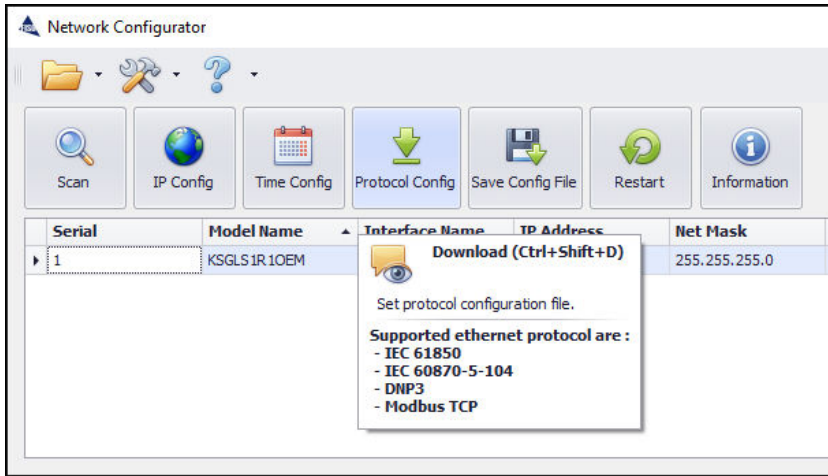
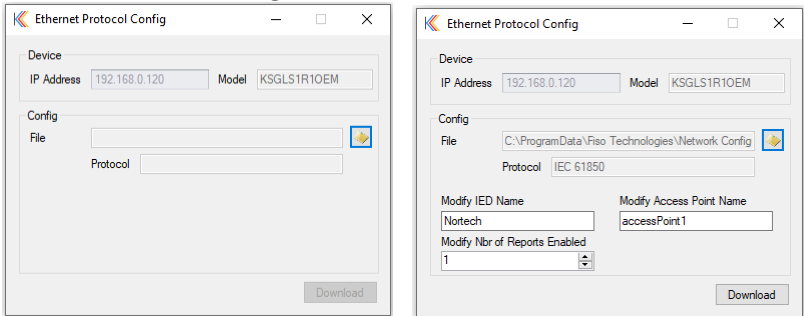
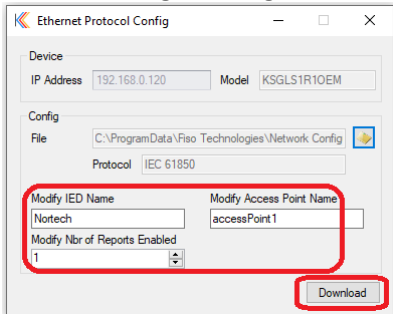
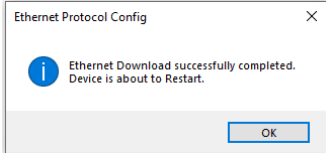
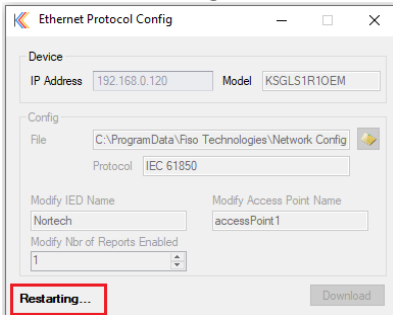


5.3 Time Config

Image	Description
	Date Time (Ctrl+Shift+T) Set SNTP server configuration IP address. N.B. SNTP default IP address is set to a public SNTP server : 199.19.167.36
1. Load the configuration file	
2. Read the date and time from the device.	
3. Modify the SNTP address and click on Apply	
4. Restarting device	

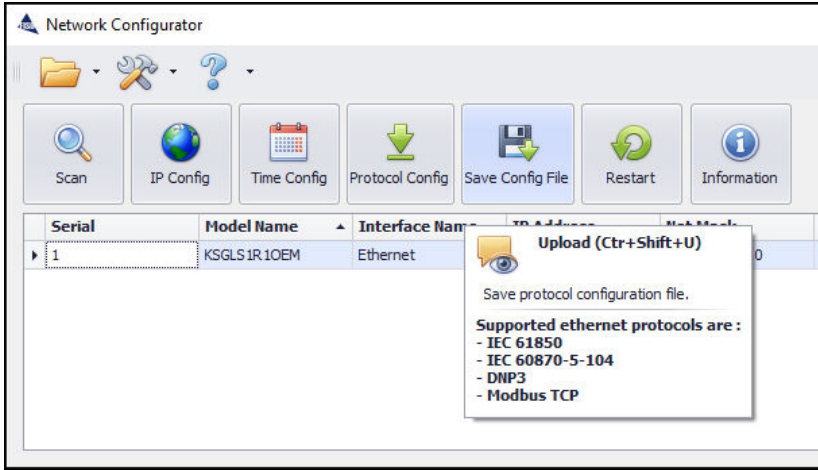
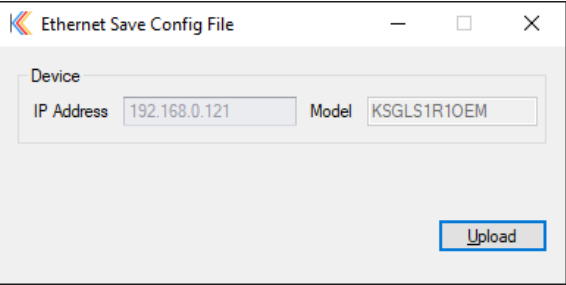
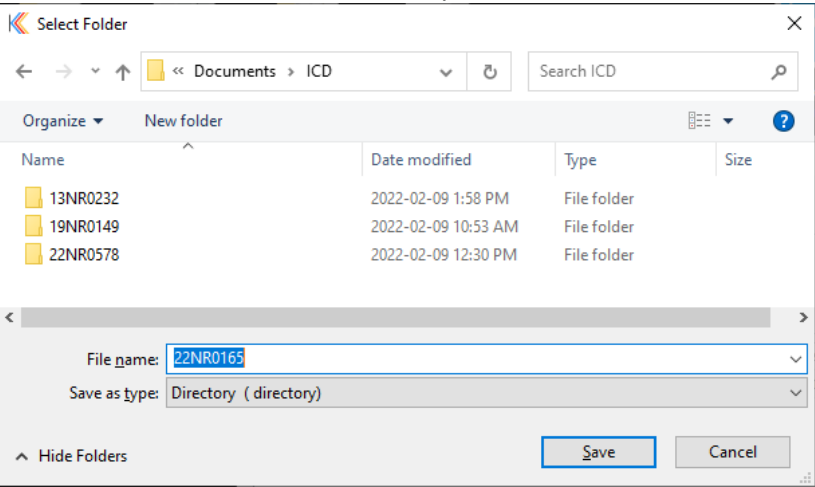
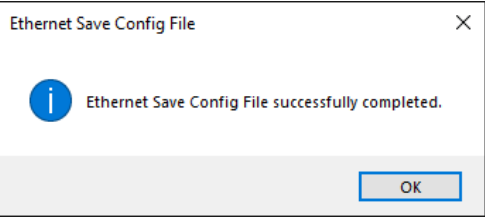


5.4 Protocol Config

Image	Description
	Download (Ctrl+Shift+D) Set protocol configuration file. Supported ethernet protocol are : - IEC 61850 - IEC 60870-5-104 - DNP3 - Modbus TCP
1. Load the configuration file 	Settings : IEC 61850 : - IED Name - Access Point Name DNP3 : - Source Address - Destination Address - Port Number IEC 60870-5-104 : - N/A Modbus TCP-IP : - N/A
2. Change settings and click on Download  	
3. Restarting device 	

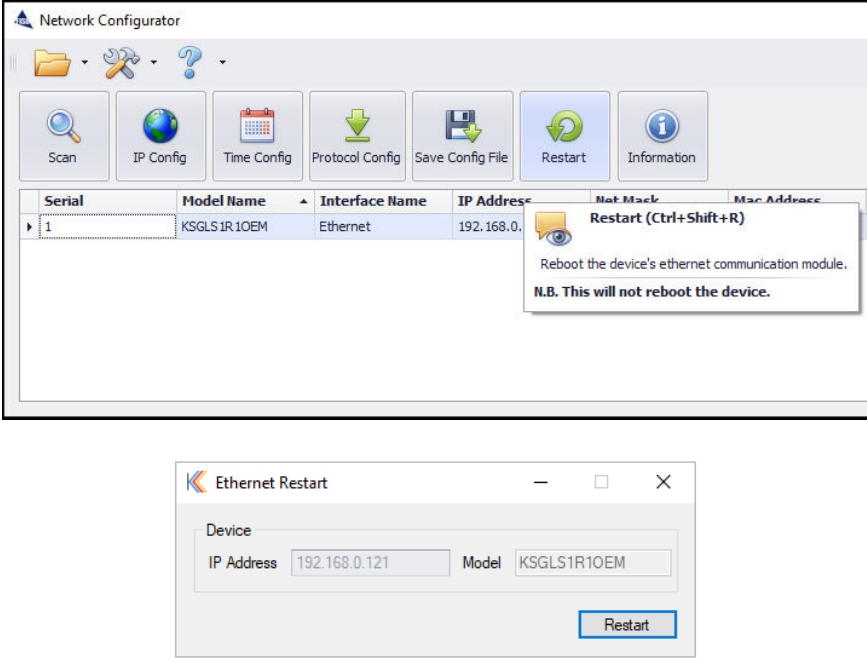


5.5 Save Config File

Image	Description
	 Upload (Ctrl+Shift+U) Save protocol configuration file. Supported ethernet protocols are : - IEC 61850 - IEC 60870-5-104 - DNP3 - Modbus TCP
1. Save the configuration files 	Settings : IEC 61850 : - IED Name - Access Point Name DNP3 : - Source Address - Destination Address - Port Number IEC 60870-5-104 : - N/A Modbus TCP-IP : - N/A
2. Select and name the directory where to save the files 	
3. Save 	

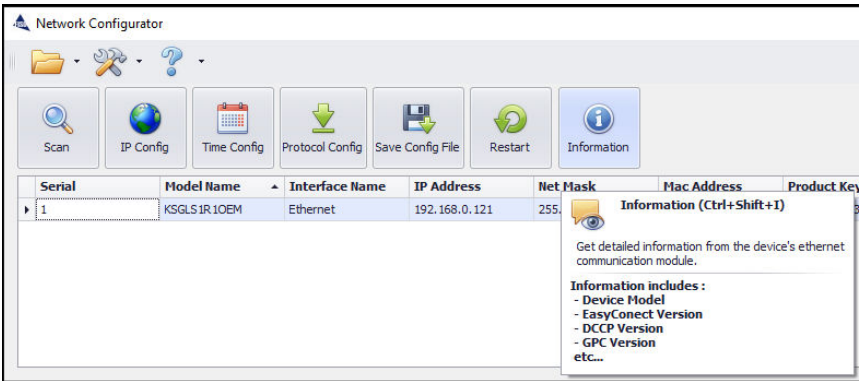
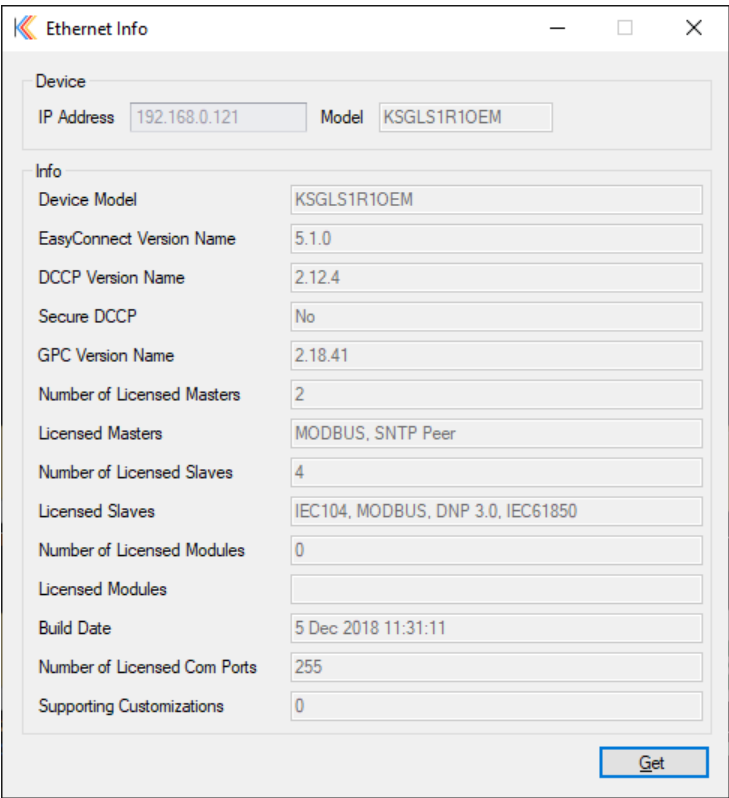


5.6 Restart

Image	Description
 The screenshot shows the Network Configurator application window. At the top, there's a toolbar with icons for Scan, IP Config, Time Config, Protocol Config, Save Config File, Restart, and Information. Below the toolbar is a table with columns: Serial, Model Name, Interface Name, IP Address, Net Mask, and Mac Address. The first row shows Serial '1', Model Name 'KSGLS1R10EM', Interface Name 'Ethernet', and IP Address '192.168.0.121'. A context menu is open over the 'Restart' button, showing the text: 'Restart (Ctrl+Shift+R)', 'Reboot the device's ethernet communication module.', and 'N.B. This will not reboot the device.' Below the main window, there's a smaller window titled 'Ethernet Restart' with fields for 'Device' (IP Address: 192.168.0.121, Model: KSGLS1R10EM) and a 'Restart' button.	 Restart (Ctrl+Shift+R) Reboot the device's ethernet communication module. N.B. This will not reboot the device.



5.7 Information

Image	Description
 The screenshot shows the Network Configurator interface. At the top, there's a toolbar with icons for Scan, IP Config, Time Config, Protocol Config, Save Config File, Restart, and Information. Below the toolbar is a table with columns: Serial, Model Name, Interface Name, IP Address, Net Mask, Mac Address, and Product Key. The first row shows Serial 1, Model Name KSGLS1R10EM, Interface Name Ethernet, IP Address 192.168.0.121, and Net Mask 255. An 'Information (Ctrl+Shift+I)' tooltip is displayed over the Information button, stating: 'Get detailed information from the device's ethernet communication module. Information includes: - Device Model - EasyConnect Version - DCCP Version - GPC Version etc...'.	 Information (Ctrl+Shift+I) Get detailed information from the device's ethernet communication module. Information includes : - Device Model - EasyConnect Version - DCCP Version - GPC Version - etc...
 The screenshot shows the 'Ethernet Info' dialog box. It has a 'Device' section with 'IP Address' 192.168.0.121 and 'Model' KSGLS1R10EM. Below is an 'Info' section with various fields: Device Model (KSGLS1R10EM), EasyConnect Version Name (5.1.0), DCCP Version Name (2.12.4), Secure DCCP (No), GPC Version Name (2.18.41), Number of Licensed Masters (2), Licensed Masters (MODBUS, SNTP Peer), Number of Licensed Slaves (4), Licensed Slaves (IEC104, MODBUS, DNP 3.0, IEC61850), Number of Licensed Modules (0), Licensed Modules, Build Date (5 Dec 2018 11:31:11), Number of Licensed Com Ports (255), and Supporting Customizations (0). A 'Get' button is at the bottom right.	



6 Help

6.1 About

Image	Description
	 About Software version and .Net version used.

6.2 Shortcut

Section	Name	Key(s)
Tools	Scan	Ctrl + Shift + S
Tools	IP Config	Ctrl + Shift + I
Tools	Time Config	Ctrl + Shift + T
Tools	Protocol Config	Ctrl + Shift + D
Tools	Save Config File	Ctrl + Shift + U
Tools	Restart	Ctrl + Shift + R
Tools	Information	Ctrl + Shift + F1
Help	About	F1