

SuperSting Manager

App for SuperSting™ on Android Device

Instruction Manual



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Advanced Geosciences, Inc.
Austin, Texas

Instruction Manual
for
SuperSting™ Manager

Advanced Geosciences, Inc.

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SuperSting App Manual

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1 WELCOME

We, all of us at Advanced Geosciences Inc. (AGI), thank you for purchasing our SuperSting App and the SuperSting electrical imaging system with Wi-Fi™ for mobile electrical surveys.

1.1 SuperSting Manager App at a Glance

The SuperSting™ Manager App allows you to work from the comfort of a remote location, such as a vehicle or work trailer, while performing all of the functions you would normally control from the instruments keypad as well as several new functions.

- SuperSting™ with Wi-Fi and Android App mobile connection allows the instrument to be controlled and monitored up to a hundred meters from the physical location of the instrument. Distance depending on terrain and weather conditions.
- All functionality such as Automatic mode and Manual Mode surveys, Test Menu functions, Measurement Settings and System Settings are available, with the exception of baud rate setting.
- Real time color pseudo-section plots, transmitter/receiver pair plots, IP curve plots, contact resistance test results, real time data review; all in vivid colors on large screen assures real time quality control (QC) in the field.
- Data storage on Android devices is typically in Gigabyte range, meaning essentially unlimited storage space is available.
- Email data files, command files and screen shots directly from the App to your processing center in real time.
- Upload and download data files and command files to your SuperSting™.
- Compatible with multiple size Android mobile devices (phones and both 7" and 10" tablets).

1.2 Where to Get Help

This instruction manual is the primary resource for everything about the SuperSting™ Manager App. A PDF file of this manual can be downloaded and is also delivered with the software.

Many of the menus available in the SuperSting Manager App are identical to those described in the SuperSting manual and are accessible directly from the faceplate keypad. We refer to the pages in the SuperSting™ manual and suggest that you review these materials as well for a complete understanding of the SuperSting™ with Wi-Fi and the SuperSting™ Manager App.

Tech Support

Email: support@agiusa.com

Phone: +1 512 335-3338

AGI directory is listed here:

<http://www.agiusa.com/directory.shtml>

Advanced Geosciences, Inc.
2121 Geoscience Dr.
Austin, Texas 78726
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Website: <http://www.agiusa.com>

2 INSTALLATION

2.1 The Android device

The device used for this app should have minimum Android operating system version 9 (Gingerbread) installed.

It is recommended that this app be used with a 7 inch or 10 inch tablet. The app may also be used with various handset devices, but be cautioned that the various layouts may not render properly on all handset devices.

The device on which this app is used must have Wi-Fi capabilities in order to utilize all of its functions. The app requires certain permissions to properly function. These are listed below:

- Storage-modify/delete SD card contents
- Network communication-full internet access
- Personal information-read contact data
- System tools- Change Wi-Fi state, prevent tablet from sleeping, control vibrator
- Hardware controls-control vibrator

The number of files that can be saved to the device's internal storage depends on a number of factors including but not limited to the device's storage size, the downloaded file size, the number and size of other applications and data. However, data storage on Android devices is typically in the Gigabyte range, meaning essentially unlimited storage space is available.

To operate the app in conjunction with the SuperSting instrument, the device must have Wi-Fi capabilities. The device must connect to the SuperSting Wi-Fi access point through the device's Wi-Fi settings menu.

To communicate with the SuperSting, the baud rate of the SuperSting instrument must match the baud rate of the serial to Wi-Fi module. The serial to Wi-Fi module has a default baud rate of 38400 at power up. The SuperSting baud rate is set on the SuperSting menu 6/4/8.

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Once the device is connected to the SuperSting access point, the SuperSting must be on the main menu before a connection will be made. If a connection attempt fails, please check the settings of the SuperSting.

Communication over the SuperSting Wi-Fi network is SECURED with WPA PSK security. Use of the Wi-Fi SuperSting may be disrupted or not possible in high network traffic areas. It is advised that all computers and devices within range of the SuperSting Wi-Fi access point, that are not communicating with the SuperSting, have their Wi-Fi capabilities disabled.

Currently, the SuperSting Wi-Fi access point is configured to allow a total of five client connections. Only one connected client may communicate with the SuperSting instrument at a given time

2.1.1 Installing the SuperSting Manager App

With your shipment, a SuperSting Manager App instruction manual was delivered with information about your license code and update code. Please locate these codes and proceed as follows:

There are a few important steps you need to take prior to installing the SuperSting Manager App:

- Make sure that you have a Wi-Fi connection to the Internet prior to starting the installation.
- You need to configure your Android device to accept installation of apps from sites outside of Google Play. To modify your device' security setting perform: Settings=>Security=>Device Administration=>Unknown sources=>Allow . This sequence may be slightly different in different versions.
- You need to have the free Firefox browser installed. Go to the "Google Play Store" and search for Firefox Browser for Mozilla. Install Firefox.

2.2 Download of SuperSting Manager App

With the purchase of your SuperSting Manager App, you will receive an AGI Customer Report with the following information that allows you to access the AGI SuperSting Wi-Fi App website. Please store this information in safe place for future use so that you may stay up to date with the latest developments.

Company:

Contact:Email:

Usergroup login:

Usergroup password:

Usergroup URL:

AGI Purchase Reference:

Registration Date:

2.2.1.1 Installation instruction

Make sure that your Android device has an internet Wi-Fi connection. Also make sure that your SuperSting is turned off at this time, so that the SuperSting Wi-Fi connection does not compete with your internet connection.

Use your Android device's QR code reader on the image below, to get to the SuperSting Manager App download page:



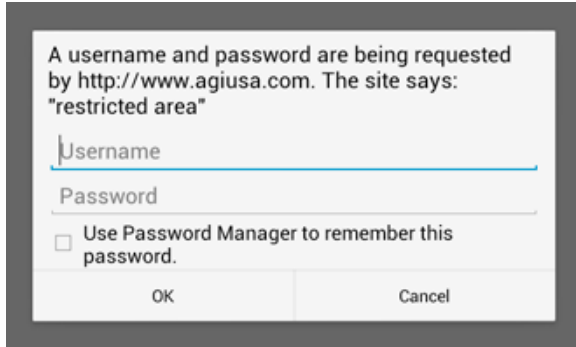
Alternately if you do not have a QR enabled camera on your device type in the following URL in your browser:

<http://www.agiusa.com/files/mobile/SuperStingManager.shtml>

On this page the above shown QR code is also displayed. It is a link that can be tapped to get to the license agreement page.

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If asked, select the Firefox browser.

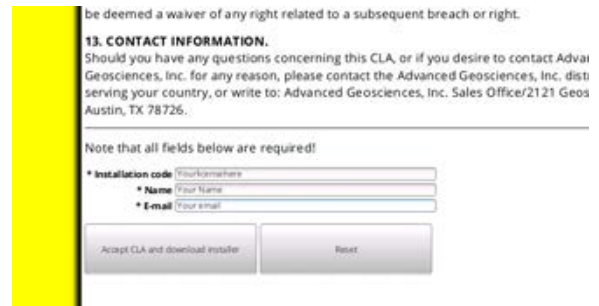


Enter the User name and Password you have received as a hardcopy in the SuperSting Manager App instruction manual.

This will send you to the Customer License Agreement page where you at the bottom must enter your license code given as a hardcopy in the SuperSting Manager App instruction manual.

After you have entered the installation code (the license code above), your name and your email you may tap the button labeled "Accept CLA and download installer"

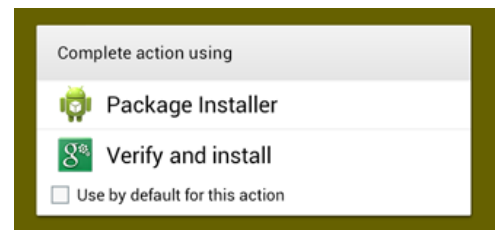
Now the App installer will be downloaded to your device and after a short moment, the application installation may ask for you to select the Firefox browser again and/or it will ask you to select the Android Package Installer.



Tap the Android Package Installer.

When the AGI SuperSting Manager page appears tap on "Install". This may take a short moment, and then tap on "Done".

The AGI SuperSting icon  is now visible among the icons on your device. Tap the AGI SuperSting icon.



2.2.1.2 App registration

On the first start, the SuperSting manager will require you to register by entering the License code, the Subscription code, your name and your email and then tap “Register”.

A sign saying “Registration Complete” will appear. Tap on “OK”. The SuperSting Manager main page will appear and the App is ready to be used.

Note, that once the app is registered the registration screen will not be shown again.



2.2.1.3 App update

In order to update the app tap the “About AGI” button and then tap the “Check for App Update” button.

If a more recent version is available the update dialog will be shown. Tap the “Start Update” button to continue.

The subscription code should be visible, if not you have to type it into the empty field. After the dialogue is filled in, tap the “Start Download” button and the installer will be downloaded and applied similarly to when the app was first installed.

The next time you start the app update, no registration page will be shown since you have already registered.

2.2.1.4 Connecting to the SuperSting

To communicate with the SuperSting, the instrument has to be set to communicate at 38400 baud and wait with the main menu displayed.

Turn the SuperSting on and go to menu M6/4 to make sure that the SuperSting is set to communicate at 38400 baud.

Then back out to the main menu by pressing 2 times on the MEN key.

On the Android device go to Settings=>Wi-Fi and select SuperSting. Enter the Security code for SuperSting Wi-Fi, SuperSting01 (note, upper case S's), and tap the "Connect" button.

On the device, tap the AGI icon  to get to the SuperSting Manager main menu.



Figure 2 SuperSting Manager App main menu.



Figure 1 Tap the AGI icon to start the Supersting Manager App

3 Getting Started with the SuperSting™ Manager

The SuperSting App will free you up from being tied down to the instrument when performing electrical resistivity imaging surveys. With the SuperSting Manager App you can control the SuperSting remotely from your Android phone or tablet working connected to the SuperSting by Wi-Fi®.

When connected to the SuperSting you can:

- Control the SuperSting remotely from your Android device.
- Download files.
- Erase files from the SuperSting memory.
- Upload command files.
- Download zip files.
- Get instrument type, serial number and firmware version of the instrument you are connected to.

You can also work with the device disconnected from the SuperSting:

- Plot pseudo-sections.
- View stg-files.
- View command files.
- View contact resistance files.
- Edit text files.
- Email data files, if connected to the internet.
- Contact AGI, if connected to the internet.

3.1 Turning on the SuperSting Wi-Fi

- Make sure the SuperSting Wi-Fi is powered on and the following items are checked:
 - o Wi-Fi antennae is installed and raised
 - o Communication switch is pointing toward the Wi-Fi position
 - o Red indicator light shows Wi-Fi is operating
- Check that the SuperSting communication settings are set to the default by accessing the following menus using the keypad from the main menu
 - (6) System Settings
 - (4) General Settings
 - (8) Baud Rate

Baud rate should equal 38400

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- Hit the MEN key twice to go back to the SuperSting Main Menu.
IMPORTANT: you must be in the main menu to allow the SuperSting Manager to connect.
- On your Android device, go to Settings and make sure that Wi-Fi is enabled.
- The Android device should have detected the SuperSting and list it under active Wi-Fi networks.
- Tap the SuperSting network and enter the Password: **SuperSting01** (note that the password is case sensitive) and then tap **Connect**.
- The device should now be connected to the SuperSting.

While operating the SuperSting in Remote Control Mode or Data Transfer Mode, if the Wi-Fi connection is lost, the SuperSting must be powered cycled in order to reestablish a Wi-Fi connection. If a measurement is in progress when the Wi-Fi connection is lost, the measurement will proceed till the end.

3.2 Starting the SuperSting Manager

To start the SuperSting Manager App, tap the AGI icon  on your device.

Once the SuperSting Manager is started, you will see the app Main Menu (see figure 1).

3.2.1 Transfer data menu

This menu provides several options for data transfer between the device and the SuperSting. The downloaded files are saved in the AGI folder on the device's internal storage. The following actions can be performed from this menu:

- Download cmd.bin file
- Download datafile.bin file
- Upload to the SuperSting cmd.bin and .cmd files that have the following path:
/mnt/sdcard/AGI/filename
- Download a Data zip file which contains the following files: Calib.bin, CmdDir.bin, FileDir.bin, cmd.bin, datafile.bin., datafile.crs, datafile.stg. The zip file will have the name XX.zip where XX is the Datafile name.

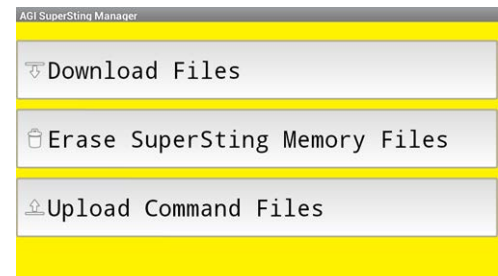


Figure 1 Transfer data menu

Note, when downloading the Data zip file, the above listed files are saved both externally (/mnt/sdcard/AGI/ filenames) and internally (/mnt/sdcard/AGI/ZipFileName) to the zip file.

3.2.1.1 Download files menu

Touch the “Download Files” button to download command files, stg files or contact resistance files from the SuperSting to the tablet (see figure 3).

Note that files which are displayed in red color have not been downloaded and can therefore not be erased from the SuperSting memory.

Touch the file button to start the data download. Notice that the actual download will take some time, maybe 1-2 minutes depending on file size.



Figure 2 Download files menu

3.2.1.2 Erase files menu

Use the “Erase files” button to erase files from the SuperSting memory.

3.2.1.3 Upload command files menu

Command files are created using the SS Administrator software or EarthImager software in a PC. Command files can also be created by using a regular text editor. Once the command files are transferred to your Android device they can be uploaded to the SuperSting memory by touching the “Upload Command Files” button.

3.2.2 Remote control menu

The SuperSting is operated in Remote Control Mode with the SuperSting GUI.

All functions performed using the instrument’s keypad can be performed using the app’s GUI with the exception of changing the SuperSting serial port baud rate in SuperSting menu M6/4.

Note: Changing the baud rate of the SuperSting serial port from the app will cause the SuperSting to become unresponsive.

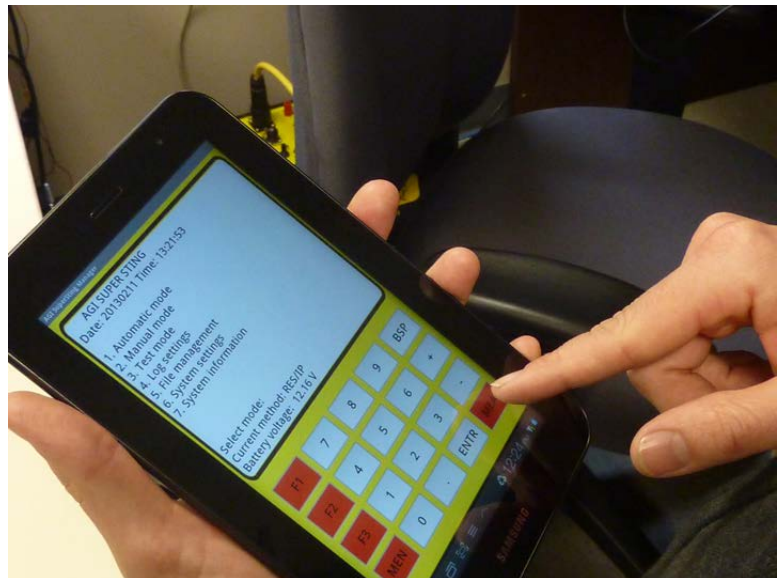


Figure 3 When touching the “Remote control” button, full control of the SuperSting is achieved.

This menu also provides the user with new Real-Time Data Quality and Analysis Tools (Data Q&A) that are only available with the app. The Data Q&A Tools include:

1. Real-Time Pseudo Section Plotter (Pseudo Section Plot)
2. Real-Time Transmitter and Receiver Pair Plot (TxRx Plot)
3. Real-Time Induced Polarization Curves Plot (IP Curves Plot)
4. Contact Resistance Test Results Log (CRS Test Results)

3.2.2.1 Real time plots

3.2.2.1.1 Real time pseudo section plots

The pseudo section plot is initialized with an unfilled pseudo section at start of the measurement and the data points are rendered with respect to the recorded measurement data. If a measurement is started and then paused, the Pseudo Section Plot will retain its state upon resuming the measurement. The Pseudo Section Plot Tool is only available when using a command file that contains only one of the following arrays:

1. Dipole-Dipole
2. Schlumberger
3. Inverse Schlumberger
4. Pole-Dipole
5. Pole-Pole
6. Wenner

If the command file contains a Mixed array, the Pseudo Section Plot Tool will be disabled. This tool has pinch-to-zoom capabilities.

3.2.2.1.2 Real time TxRx plots

The TxRx Plot Tool plots ordered transmitter and receiver pairs on a Tx/Rx plane using the data provided by the current selected command file as shown in SuperSting menu M1. The TxRx Plot is initialized with unfilled data points at start of the measurement and the data points are rendered with respect to the recorded measurement data. If a measurement is started and then paused, the TxRx Plot will retain its state upon resuming the measurement. The Pseudo Section Plot Tool is available when using a command file that contains any of the following arrays:

1. Dipole-Dipole
2. Schlumberger
3. Inverse Schlumberger
4. Pole-Dipole
5. Pole-Pole
6. Wenner
7. Mixed

This tool has pinch-to-zoom capabilities.

Note regarding the Pseudo Section Plot Tool and TxRx Plot Tool:

The listed command file must be in the AGI folder on the mobile device for the plots to be available during a measurement. The suggested way to put the current selected command file in the AGI folder is with the app's data transfer capabilities in the Transfer Data menu. The option to show Apparent Resistivity in SuperSting menu M64 must also be enabled for the real-time data to properly render. Both plots contain a Settings button which will provide the user the option to adjust certain plot characteristics.

3.2.2.1.3 Real time IP curve plots

The IP Curves Plot Tool plots IP curves on an Apparent Chargeability/IP Windows plane.

The SuperSting records six IP windows per channel when used in Res/IP mode as selected in SuperSting menu M64. The IP curve is generated with respect to the six IP window measurements.

The IP curves are plotted using a color scale to aid in visualizing the most recently recorded IP windows. The most recent IP curve will correspond to the color RED while the first recorded IP curves will correspond to the color BLACK. There are eight colors spanning RED, ORANGE, YELLOW, GREEN, BLUE, and BLACK. The IP curves will stack for the duration of the measurement. If a measurement is started and then paused, the IP Curves Plot will retain its state upon resuming the measurement.

Note: The IP Curves Plot Tool is only available when the SuperSting is in Res/IP Mode.

3.2.2.1.4 Contact resistance test result log

The contact resistance test log displays the results of a Contact Resistance Test executed from SuperSting menu M31.

The CRS Test results can be used to identify potential problems that may affect the recorded data before a measurement is started. The CRS Test Results are logged in real-time and contain a date/time stamp. A CRS Test is recommended before starting all measurements.

Note regarding the Data Q&A Tools: Once a measurement is started, the Data Q&A Tools will retain their state if the measurement is paused and then sub sequentially resumed. However, the data for the Data Q&A Tools will be cleared if a new data file is created in Menu M21 or a data file is selected in Menu M51.

3.2.3 Plot pseudo section menu

This option permits the user to select a .stg file from a list of available files saved to the device and to plot the corresponding pseudo section provided by the selected file. Only files saved in the AGI folder on the device's internal storage will be available for plotting.

Note: The plot contains a Settings button which will provide the user with the option of adjusting certain plot characteristics. This plot has pinch-to-zoom capabilities.

3.2.4 View text files menu

This option permits the user to select and view .crs, .cmd, and .stg files from a list of available files saved to the device and to view the corresponding text file. Only files saved in the AGI folder on the device's internal storage will be available for viewing. There is an option in this menu to delete the file from the device.

3.2.5 Text editor menu

This option permits the user to select, view, and edit .crs, .cmd, and .stg files from a list of available files saved to the device and to view the corresponding text file. Only files saved in the AGI folder on the device's internal storage will be available for viewing. There is an option in this menu to save the file with a new name and delete the file from the device.

3.2.6 Email data menu

Select from a list of available files saved in the AGI folder on the device's internal storage and send an email with the attached file using a previously initialized email client(Gmail, Yahoo, Outlook accts have been verified).

Note: Requires previous initialization of an email client. The email will not be sent if no internet connection is available. Depending on the email client being used, the email will sit in the Outbox until an internet connection is available at which point the email will be sent. If the device has a mobile data plan, additional data charges may apply if email is sent using the mobile network.

3.2.7 Contact AGI, Inc.

Connect to the AGI Contact Directory at **<http://www.agiusa.com/directory.shtml>**. If no internet connection is available, a non-interactive version of the AGI Contact Directory will be displayed.

Note: Additional data charges may apply if connecting to the AGI Contact Directory via a mobile data network.

3.2.8 Settings menu

The Settings menu provides the user with two options:

1. Check SuperSting Settings
2. Languages

3.2.8.1 Check SuperSting information

This option downloads from the SuperSting the calibration file (Calib.bin) and reports the Instrument Type, Instrument Serial Number, and the loaded Firmware Version Number. The firmware version should be **.60E** for the app to work properly with the SuperSting.

3.2.8.2 Language

This option provides a list of languages that will change the default language setting of the app. The default language is set to English. Changing the language of the app does not change the device's set language. Other language options will be made available once the respective translation is complete.

Note: Changing the Language setting of the device will override the language setting of the app. If the device language setting is changed, the app's language will need to be reset to the desired language.

3.2.9 About AGI

Provides a brief overview of Advanced Geosciences Inc. and what our systems may be used for. The app version number will be found at the bottom of the page. There is also a button "Check for Update" that upon selecting will check the AGI server for an updated version of the app. A notification will appear in the notification's section indicating whether or not a notification is available for download.

4 General Android device information

4.1 Features

The app utilizes the Android Notification Service and Alarm Service. When using the app in Remote Control Mode, if a measurement is started, a Notification will appear in the Notifications Bar when the measurement is completed. At the same time, an audible alarm will sound for 30 second duration and a haptic feedback alert will execute. The audible alarm will be the system's default alarm tone. The notification, audible alarm, and haptic feedback alert will remain active if the device loses Wi-Fi connection with the SuperSting.

Note: To change the alarm tone, please consult the user's manual for your device. Depending on Android OS version, it may be necessary to enable Notifications and Haptic Feedback. Please consult your user's guide.

4.2 General considerations

The app needs the following permissions on the device to function properly:

- Storage-modify/delete SD card contents
- Network communication-full internet access
- Personal information-read contact data
- System tools- Change Wi-Fi state, prevent tablet from sleeping, control vibrator
- Hardware controls-control vibrator

The number of files that can be saved to the device's internal storage depends on a number of factors including but not limited to the device's storage size, the downloaded file size, the number and size of other applications and data.

To operate the app in conjunction with the SuperSting instrument, the device must have Wi-Fi capabilities. The device must connect to the SuperSting Wi-Fi access point through the device's Wi-Fi settings menu. To communicate with the SuperSting, the baud rate of the SuperSting instrument must match the baud rate of the serial to Wi-Fi module. The serial to Wi-Fi module has a default baud rate of 38400 at power up. Once the device is connected to the SuperSting access point, the SuperSting must be on the main menu before a connection will be made. If a connection attempt fails, please check the settings of the SuperSting.

While operating the SuperSting in Remote Control Mode or Data Transfer Mode, if the Wi-Fi connection is lost, the SuperSting must be powered cycled in order to reestablish a Wi-Fi connection. If a measurement is in progress when the Wi-Fi connection is lost, the measurement will proceed till the end.

Communication over the SuperSting Wi-Fi network is SECURED with WPA PSK security. Use of the Wi-Fi SuperSting may be disrupted or not possible in high network traffic areas. It is advised that all computers and devices within range of the SuperSting Wi-Fi access point that are not communicating with the SuperSting have their Wi-Fi

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capabilities disabled. Currently, the SuperSting Wi-Fi access point is configured to allow a total of five client connections. Only one connected client may communicate with the SuperSting instrument at a given time. The Wi-Fi access point has an embedded webserver that can be used to configure the device through a Wi-Fi connection. Open the URL (IPAddress/iChip) in an enabled web browser to open a session with the device web server. There are a myriad of configuration parameters that can be customized to meet the client's needs.

5 SuperSting Wi-Fi Access Point Settings

5.1 IP address

IP address=1.2.3.4

5.2 Pass phrase

Passphrase= SuperSting01

5.3 Web server URL

1.2.3.4/iChip

5.4 Web server pass phrase

Passphrase=SuperSting01

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