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Cellular APN Configuration

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Overview

This document serves as a quick configuration of the APN of your SIM card's mobile provider to allow connection to the Internet via a cellular network (2G/3G/4G). Smart Antenna can store up 4 APN different configurations but only one configuration is necessary.

For detailed configuration information, please refer to the Smart Antenna Product Configuration. Visit www.nordian.com for more information.

NOTE: Document valid for 2.2.0 or newer firmware version.

NOTE: The OEM Board does not support SIM cards with PIN enabled. To use such a SIM, disable the PIN in its configuration.

Learn More

If you have any doubt on how to proceed with this configuration, we recommend exploring the following documents with additional information of Smart Antenna configuration:

- Quick Start: for initial guide of the product;
- UltraPoint Configuration via MQTT: to enable MQTT correction after APN configuration is done.

Setting APN Name

On Nordian Updater, enter and transmit the following command:

```
$CELLULAR APN NAME <Index> <Provider_Name>
```

- In <Index>, select the APN slot that you are configuring from 0 to 3;
- In <Provider_Name>, write the name given by your cellular provider of the SIM card in use.

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Setting APN User

On Nordian Updater, enter and transmit the following command:

$CELLULAR APN USER <Index> <Provider_User>

- In <Index>, select the APN slot that you are configuring from 0 to 3;
- In <Provider_User>, write the user given by your cellular provider of the SIM card in use.

Setting APN Password

On Nordian Updater, enter and transmit the following command:

$CELLULAR APN PASSWORD <Index> <Provider_Password>

- In <Index>, select the APN slot that you are configuring from 0 to 3;
- In <Provider_Password>, write the password given by your cellular provider of the SIM card in use.

Setting APN Context Type

On Nordian Updater, enter and transmit the following command:

$CELLULAR APN CONTEXT_TYPE <Index> <Provider_Context_Type>

- In <Index>, select the APN slot that you are configuring from 0 to 3;
- In <Provider_Context_Type>, choose the context type of your provider:
    - IPv4
    - IPv6
    - IPv4v6

- Note: If your provider does not specify a context type, select IPv4 as it is the standard context type.

Setting APN Auth Method

On Nordian Updater, enter and transmit the following command:

$CELLULAR APN AUTH_METHOD <Index> <Provider_Auth_Method>

- In <Index>, select the APN slot that you are configuring from 0 to 3;
- In <Provider_Auth_Method>, choose the auth method of your provider:
    - NONE
    - PAP
    - CHAP
    - PAP_CHAP

Note:
- If your provider does not specify the auth method, user and password select NONE.
- If the provider does not give you only the auth method, then select PAP as it is the standard one.

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Activating APN Slot

Once the APN configuration is done, you must activate the slot that you configured by enter and transmit the following command:

$CELLULAR APN SELECT <Index>

- In <Index>, select the APN slot that you configured from 0 to 3.

Saving Configurations

When configurations are altered via Serial commands, they're only active while the device is powered on. Once all the configuration is complete, it is essential to save.
On Nordian Updater, enter and transmit the following commands:

$CELLULAR CONFIGS SAVE

Configuration Status

You can check all the configurations you have made by executing the following command:

$CELLULAR CONFIGS STATUS

This command displays each configuration of the four available configuration slots.

Example of Configuration

Here's an example APN configuration on the slot one(1) using CLARO BR SIM Card on Nordian Software Updater. Remember to use the name, user, password, context type and auth method of your provider.
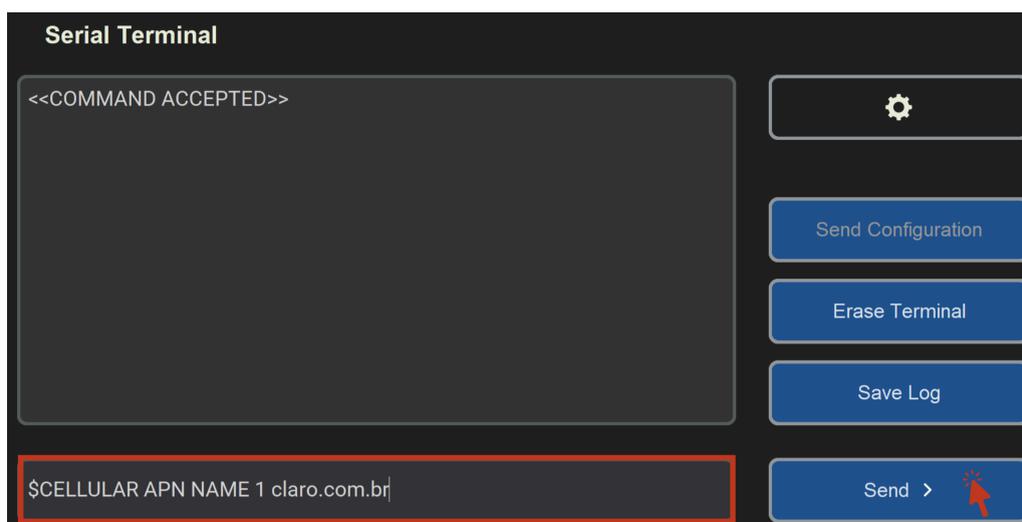

Figure 1 • **First Step: Set APN Name.**

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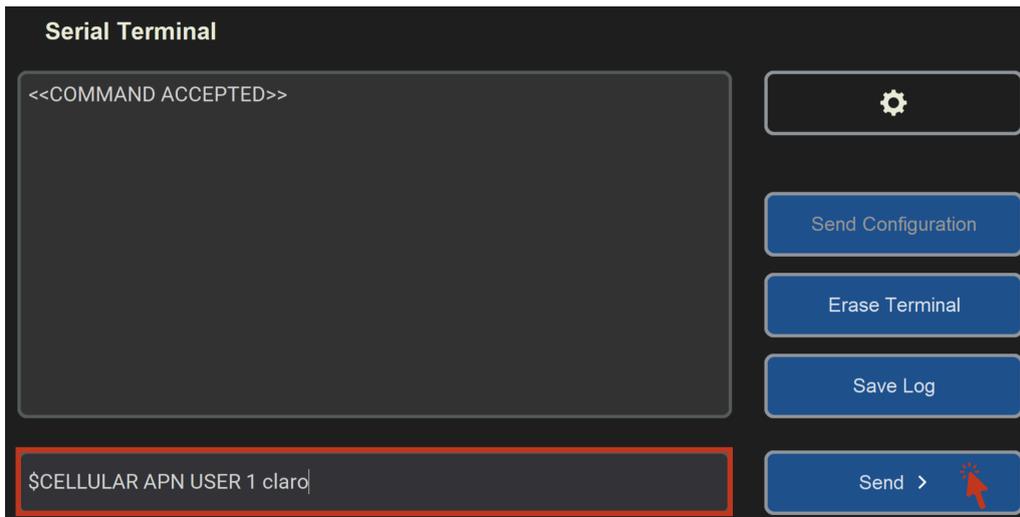
Figure 2 • **Second Step: Set APN User.**
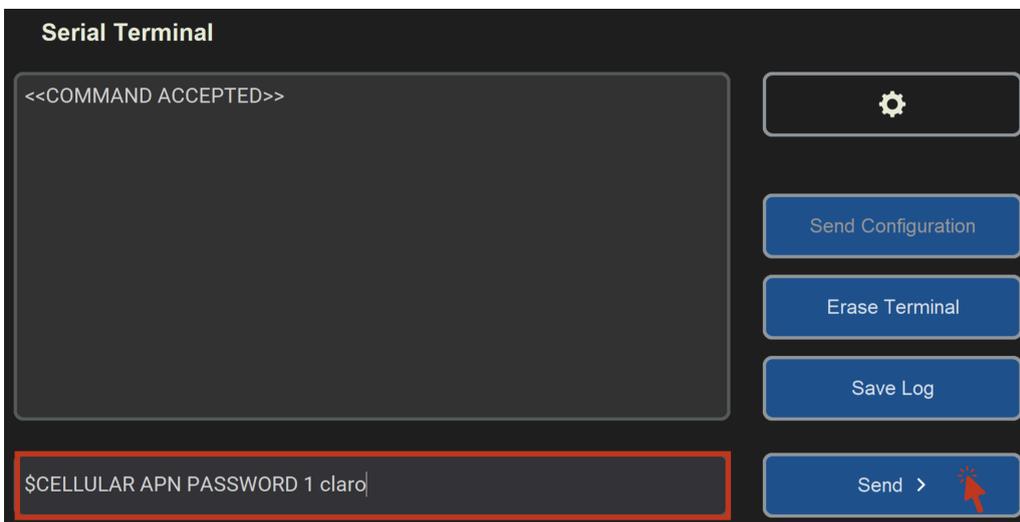
Figure 3• **Third Step: Set APN Password.**
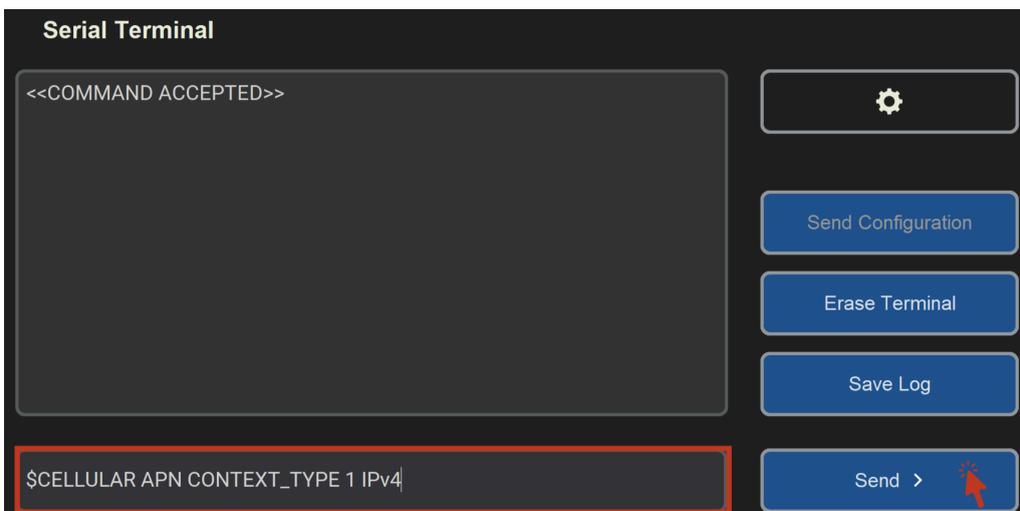
Figure 4 • **Fourth Step: Set APN Context Type.**

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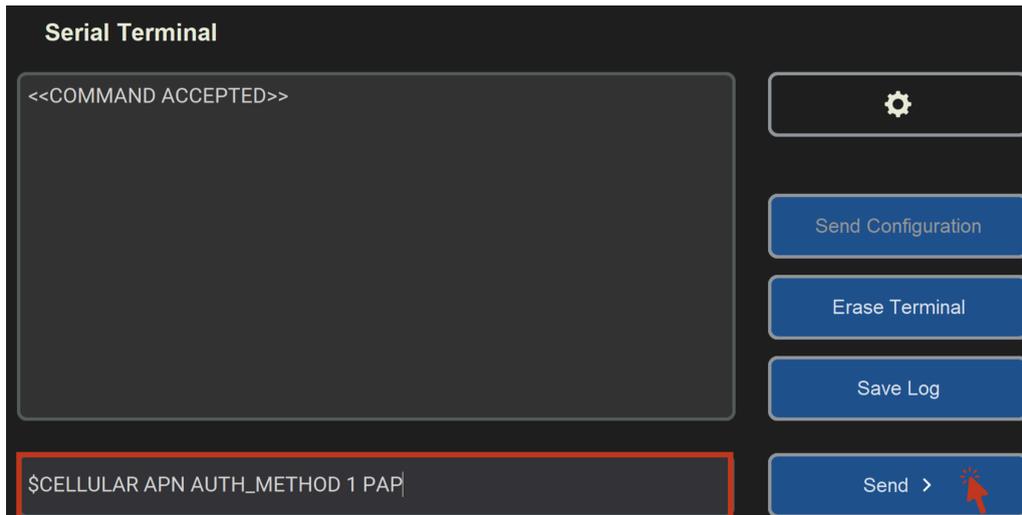
Figure 5 • Fifth Step: Set APN Auth Method.
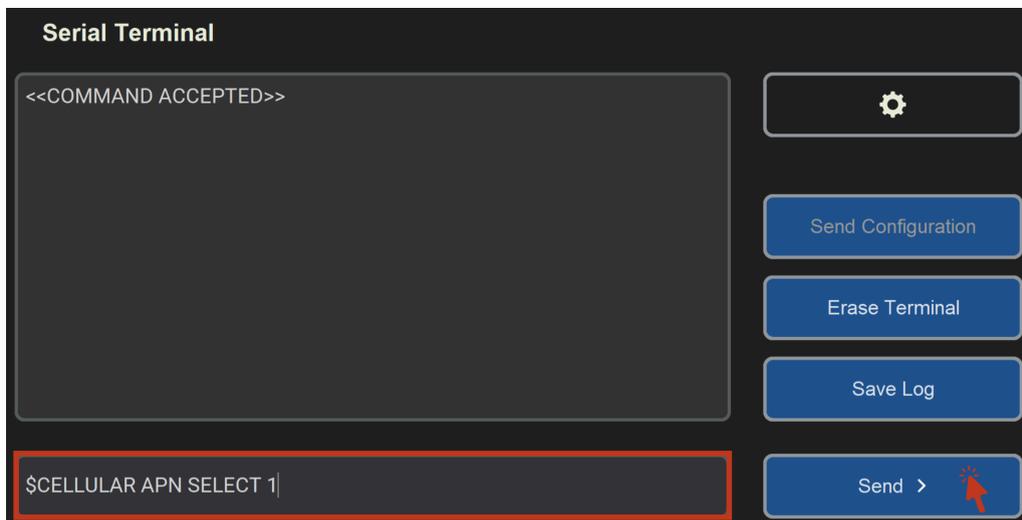
Figure 6 • Sixth Step: Select active Slot as one(1).
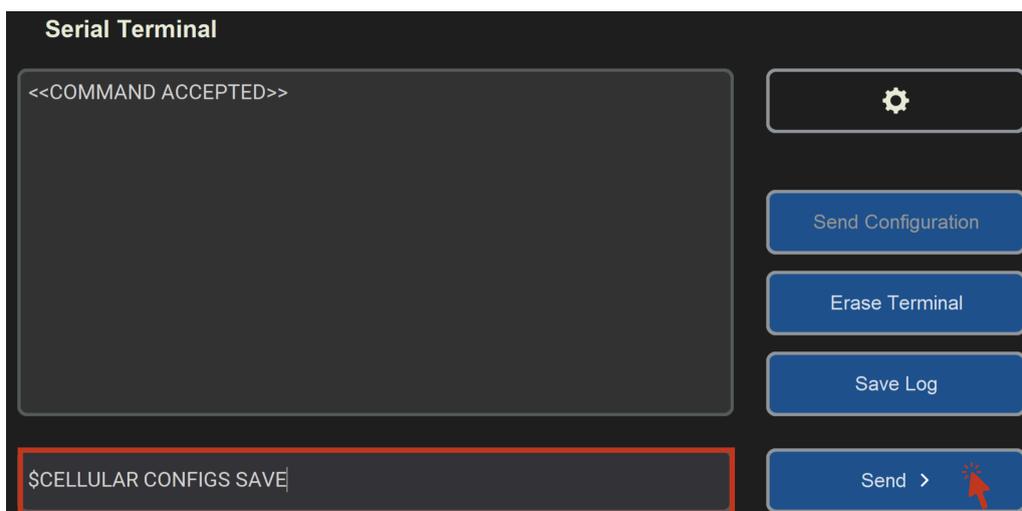
Figure 7 • Seventh Step: Save configurations.

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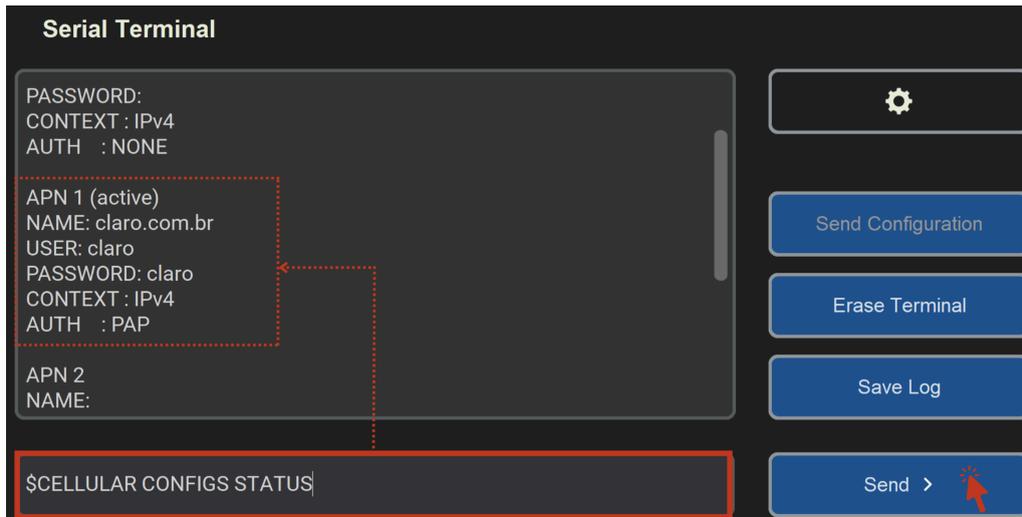
Figure 8 • **Status of all the configuration done.**

Support

By following these instructions, you can configure the APN for Internet connection via a cellular network on your Smart Antenna device. For specific support, doubts and warranty claim, contact Nordian Inc at:

URL: www.nordian.com
SAC: support@nordian.com