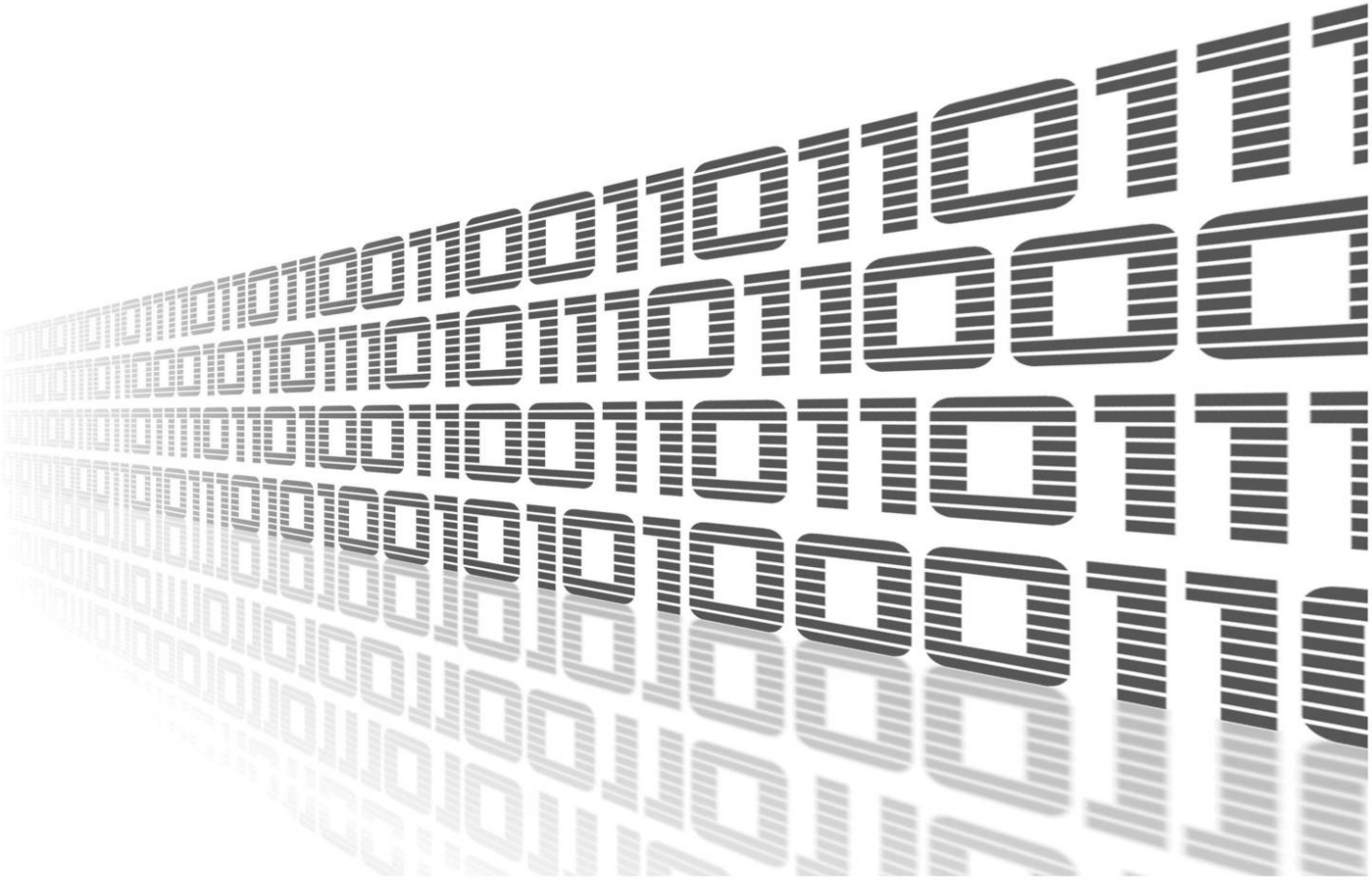
ADVANTECH

RouterApp

Band Select



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Used symbols

Danger – Information regarding user safety or potential damage to the router.

Attention – Problems that can arise in specific situations.

Information – Useful tips or information of special interest.

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1. Description of Router App

Please use this router app with caution and observe the legal restrictions.

The router app *Band Select* is not included in the standard router firmware. Uploading this router app is described in the *Configuration Manual*.

Band Select module allows user to adjust the portfolio of frequency bands which router supports. What are frequency bands? Frequency bands are groupings of radio frequencies that are used by mobile networks to communicate. For example for cellular network in Europe are used frequency bands 900 MHz and 1800 MHz. For cellular network in USA is mainly used frequency band 1900 MHz. So for a router to work properly in USA as well as in Europe, it would need to support the 1900 MHz band and one or both of the 900 MHz or 1800 MHz bands used in Europe.

Type of the cellular module installed in the router can be found in the *Mobile WAN* status in the *Mobile Network Information* part.

1.1 Web Interface

The web interface for configuring the *Band Select* router app is accessed by clicking the name of a module on the *Router Apps* page within the router's web interface. On the left side of the interface (menu), you'll find the *Supported Modules* section, which lists all cellular modules compatible with the Band Select app. Depending if routers are equipped with one or two cellular modules, the menu includes a *Configuration* section containing options for *Module 1* and *Module 2*, allowing you to configure each module individually. Additionally, a *Return* option is available for navigating back to the main router web interface.

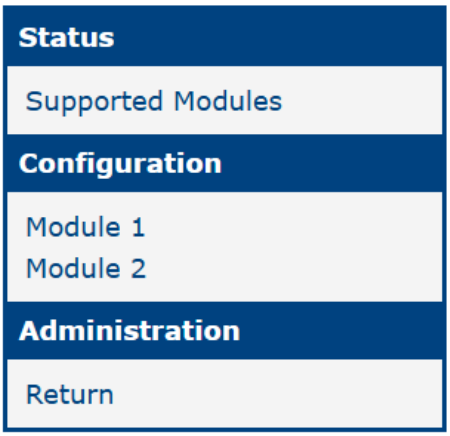

Figure 1: RA Menu for a Two Cellular Module Router

2. Configuration

To configure the *Band Select* router app, click on one of the available modules listed under the *Configuration* section in the left menu. The number of modules shown depends on the hardware of your device. The available options vary based on the installed cellular module. Before limiting bands, ensure the router app is enabled, check the *Enable Band Select* box, and click *Apply* to confirm the changes. Then, select the desired frequency bands and click *Apply* to confirm the changes. Once the settings are applied, you may uninstall the app – the configuration will remain active as previously set.

The selection table shown in the web interface displays the available frequency bands grouped by technology (such as GSM, UMTS, LTE, etc.), together with their associated frequencies. **Note that the list of displayed technologies and bands also depends on the selected network operator and the firmware version installed in the cellular module.**

There are two columns of checkboxes:

- The first column *Current* shows the bands currently active on the module, as read directly from the router.
- The second column *Configured* lets you choose which frequency bands should be enabled. These settings will take effect after you tick *Enable Band Select* and click the *Apply* button.

In some cases, such as immediately after a module restart or a configuration change, these values may not be readable. In such cases, question marks (?) will appear instead of checkboxes as shown in Figure 3.

Keep in mind that applying new settings may cause the module to restart, which can temporarily prevent current values from being displayed.

2.1 Examples for a Few Cellular Modules

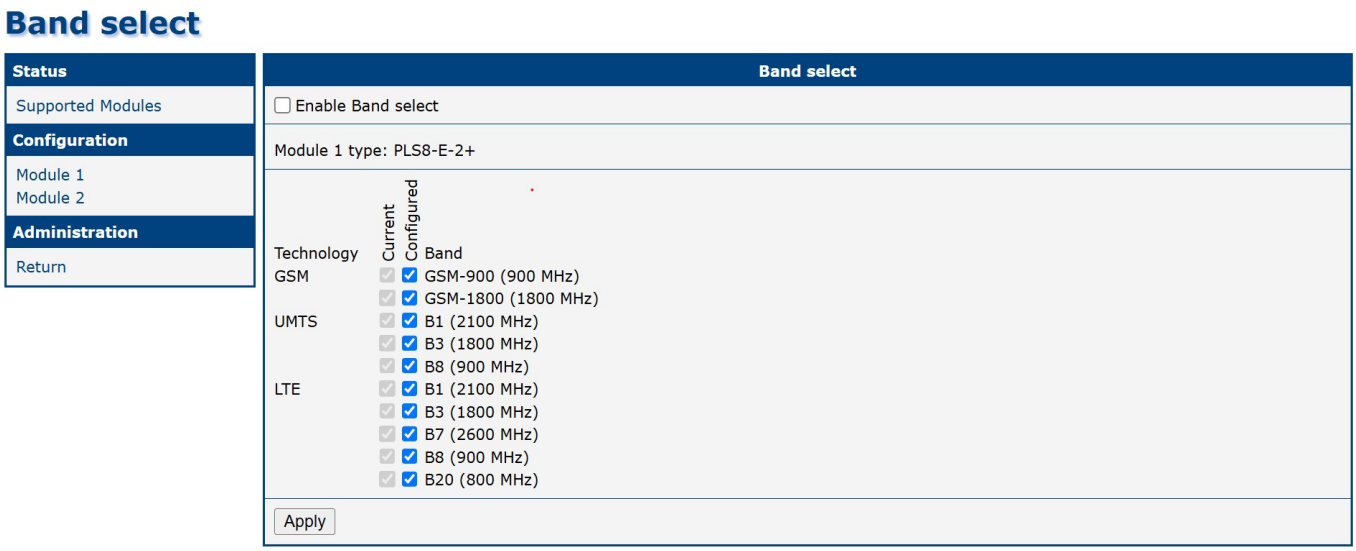

Figure 2: Configuration Form for Module PLS8-E-2+

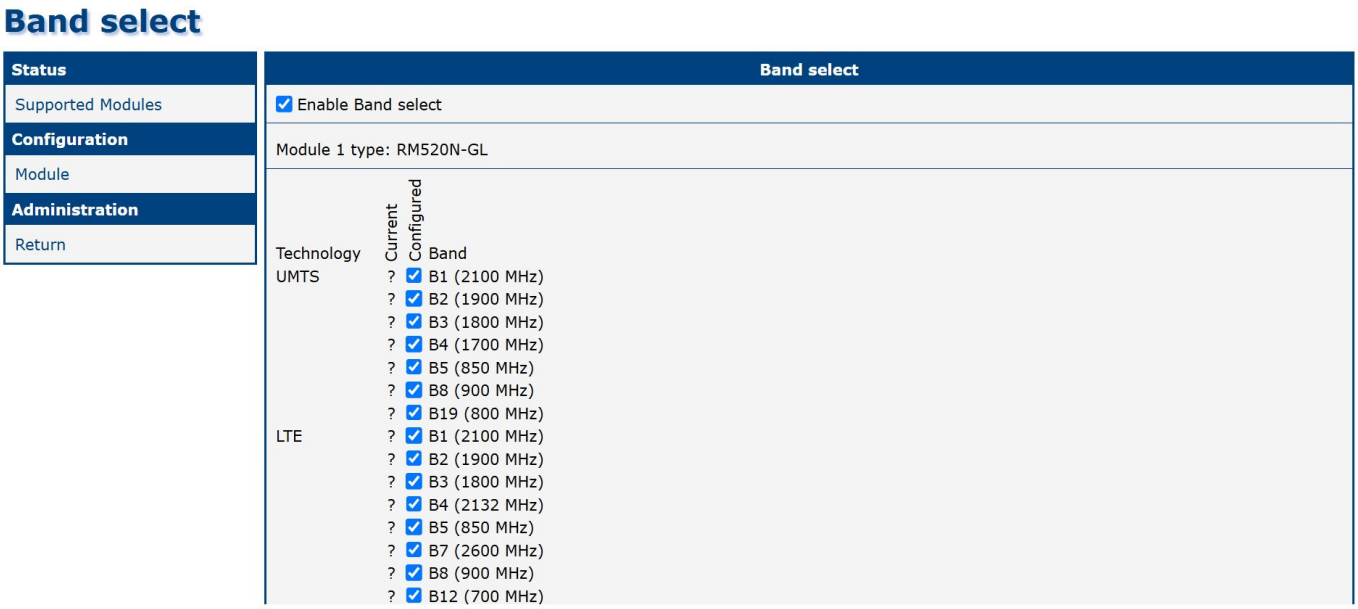

Figure 3: Configuration Form for Module RM520N-GL

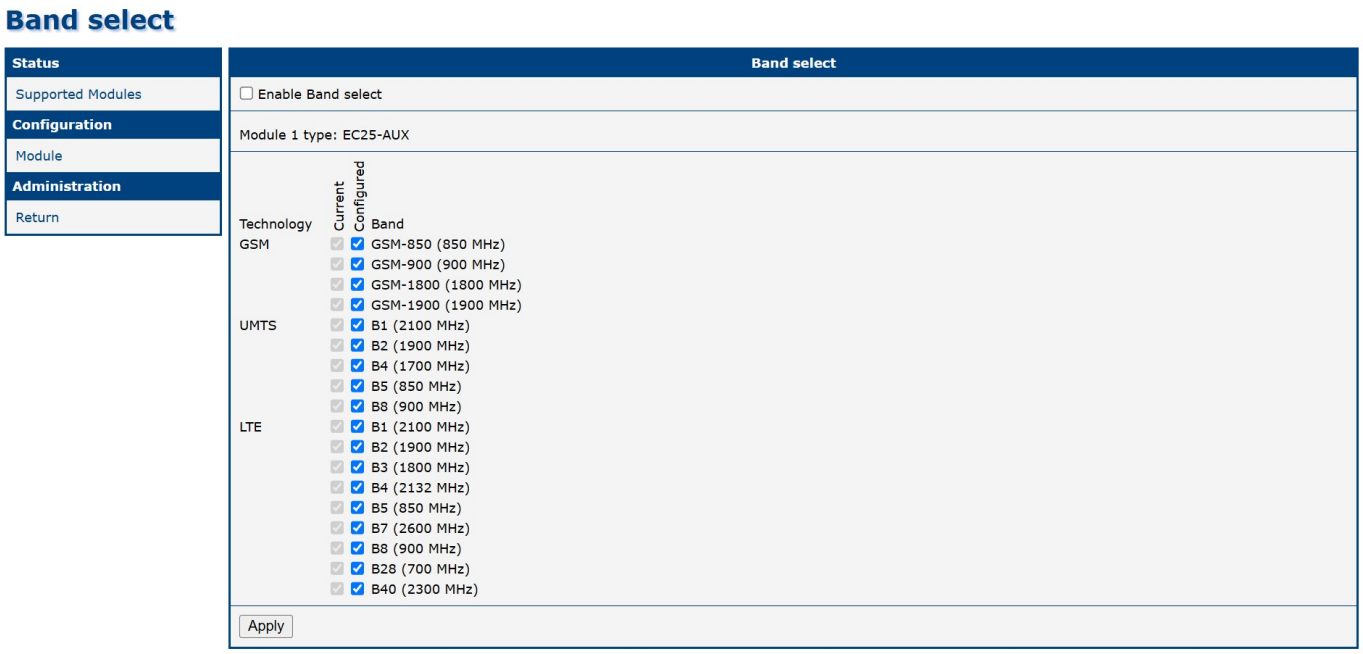

Figure 4: Configuration Form for Module EC25AUX

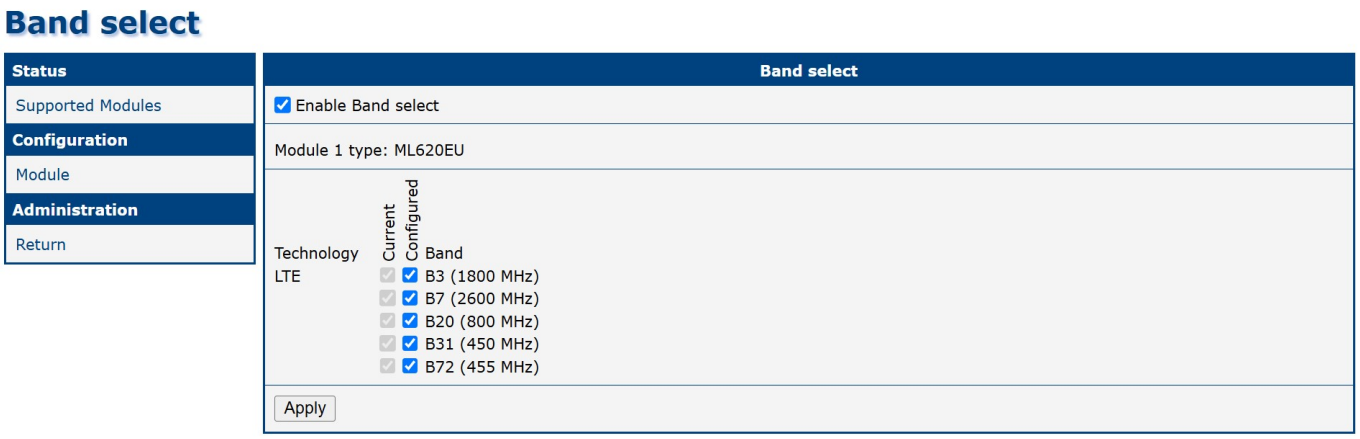

Figure 5: Configuration Form for Module ML620EU

3. Related Documents

You can obtain product-related documents on *Engineering Portal* at *icr.advantech.com* address.

To get your router's *Quick Start Guide*, *User Manual*, *Configuration Manual*, or *Firmware* go to the *Router Models* page, find the required model, and switch to the *Manuals* or *Firmware* tab, respectively.

The *Router Apps* installation packages and manuals are available on the *Router Apps* page.

For the *Development Documents*, go to the *Development* page.