



Band Select



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Used symbols



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1. Description of Router App



1

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.

Status
Supported Modules
Configuration
Module 1 Module 2
Administration
Return

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 displayed in the web interface shows the available bands grouped by technology (GSM, UMTS, LTE, etc.) and lists their corresponding frequencies. There are two columns of checkboxes:

I here 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

Band select

Status	Band select
Supported Modules	Enable Band select
Configuration	Module 1 type: PLS8-E-2+
Module 1 Module 2	
Administration	n fig
Return	hnology ∂ ∂ B and M ✓ GSM-900 (900 MHz) ✓ GSM-1800 (1800 MHz) TS ✓ B1 (2100 MHz) ✓ ✓ B3 (1800 MHz) ✓ ✓ B3 (1800 MHz) ✓ ✓ B3 (1800 MHz) ✓ ✓ B1 (2100 MHz) ✓ ✓ B1 (2100 MHz) ✓ ✓ B1 (2100 MHz) ✓ ✓ B3 (1800 MHz) ✓ ✓ B3 (1800 MHz) ✓ B3 (1800 MHz) ✓ ✓ B (900 MHz) ✓ ✓ B (200 (800 MHz) ✓
	Apply

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

Band select

Status	Band select
Supported Modules	C Enable Band select
Configuration	Module 1 type: RM520N-GL
Module	ан сан сан сан сан сан сан сан сан сан с
Administration	a rit
Return	Technology W S Band UMTS ? Ø B1 (2100 MHz) ? Ø B2 (1900 MHz) ? Ø B3 (1800 MHz) ? Ø B5 (850 MHz) ? Ø B5 (850 MHz) ? Ø B1 (2100 MHz) ? Ø B3 (1800 MHz) ? Ø B5 (850 MHz) ? Ø B5 (850 MHz) ? Ø B5 (900 MHz) ? Ø B5 (900 MHz)

Figure 3: Configuration Form for Module RM520N-GL

Band select



Figure 4: Configuration Form for Module EC25AUX

Band select

Status	Band select
Supported Modules	Z Enable Band select
Configuration	Module 1 type: ML620EU
Module	ų.
Administration	igure
Return	Technology O S Band
	LTE B3 (1800 MHz) B7 (2600 MHz) B20 (800 MHz) B31 (450 MHz) B72 (455 MHz)
	Apply

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.