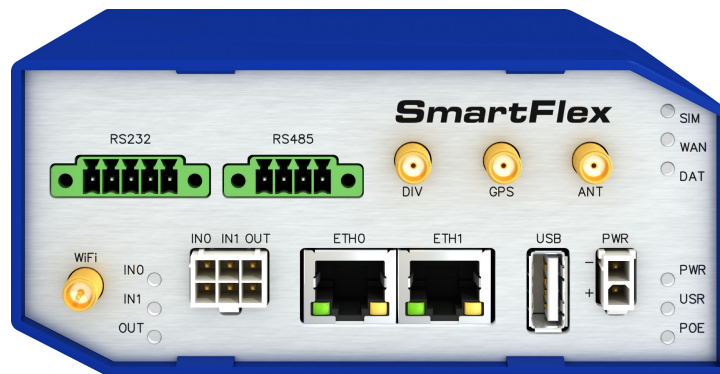


# User module

# **BIN Sleep**

## APPLICATION NOTE



**B+B** SMARTWORX

Powered by

**ADVANTECH**

## Used symbols



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



*Attention* – Problems that can arise in specific situations.



*Information, notice* – Useful tips or information of special interest.



# Contents

<b>1</b>	<b>Description of user module</b>	<b>1</b>
<b>2</b>	<b>Web interface</b>	<b>2</b>
2.1	Main menu . . . . .	2
2.2	Configuration . . . . .	2
2.2.1	Sample configuration . . . . .	3
<b>3</b>	<b>Recommended literature</b>	<b>4</b>

# List of Figures

1	Main menu . . . . .	2
2	Module configuration . . . . .	2
3	Sample configuration . . . . .	3

# List of Tables

1	Configuration parameters of module . . . . .	3
---	--	---

# 1. Description of user module



User module *BIN Sleep* is not included in the standard router's firmware. Uploading of this user module is described in the *Configuration manual* [1] in chapter *User Modules*.



This user module is compatible with Smart Routers of v3 platform only.

*BIN Sleep* user module extend configuration options of Smart Router for Low Power Mode (LPM) control. This module allows to switch the router into Low Power Mode initiated by deactivation (status = off) of router's binary input (a delay can be specified). It is also possible to declare a time when the router will wake up from the LPM mode.



Awakening of the router initiated on its binary input is only supported by one dedicated input port (input IN1). For more details see *User Manual* [2], chapter *I/O Port*.



If the router is awakened from LPM mode at time when the wakeup binary input is inactive, the router goes to LPM mode again (when configured delay interval expire).

## 2. Web interface

### 2.1 Main menu

For configuration of the *BIN Sleep* user module a web interface is available. It can be invoked by pressing the module name on the *User modules* page of the router's web interface.

Left part of this interface contains menu with link to *Configuration* page, see figure 1. *Customization* section contains only the *Return* link, which will switch back to the main router's web interface.

### BIN Sleep



Figure 1: Main menu

### 2.2 Configuration

Module activation and its configuration can be done on *Configuration* page, see figure 2. Module activation can be done by ticking the *Enable* checkbox. The time delay interval, after which the router will go to PSM mode, can be specified in *Countdown timer* field. The counter is initiated by deactivating (status = off) of router's binary input. The time for the router wakeup from PSM mode can be specified in *Wakeup time (HH:MM)\** field. Description of all items is listed in table 1.

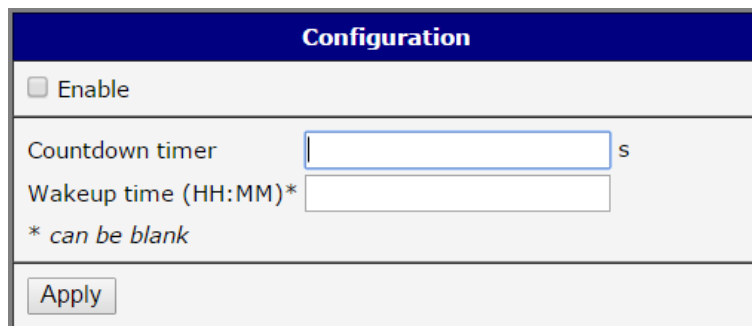


Figure 2: Module configuration

Item	Description
Enable	Activation of the <i>BIN Sleep</i> module.
Countdown timer	Countdown interval (in seconds) for switching to LPM (after the binary input deactivation).
Wakeup time (HH:MM)*	Wakeup time from LPM mode.

\* - not mandatory

Table 1: Configuration parameters of module

### 2.2.1 Sample configuration

On figure 3 is example of setting for *BIN Sleep* module. Functionality of the module is activated by ticking the *Enable* item. The time delay interval for switching to PSM mode is set to 5 minutes (*Countdown timer* = 300). The counter is initiated by deactivating of router's binary input (status = off). If the router is PSM mode, it is awakened at 6:00 (*Wakeup time* (HH:MM) = 6:00).

**Configuration**

Enable

---

Countdown timer  s

Wakeup time (HH:MM)\*

*\* can be blank*

---

Figure 3: Sample configuration

## 3. Recommended literature

- [1] Advantech B+B SmartWorx: **Configuration Manual for Smart Routers**
- [2] Advantech B+B SmartWorx: **User Manual for Smart Routers.**



Choose appropriate version of the manual matching model of your Smart Router.