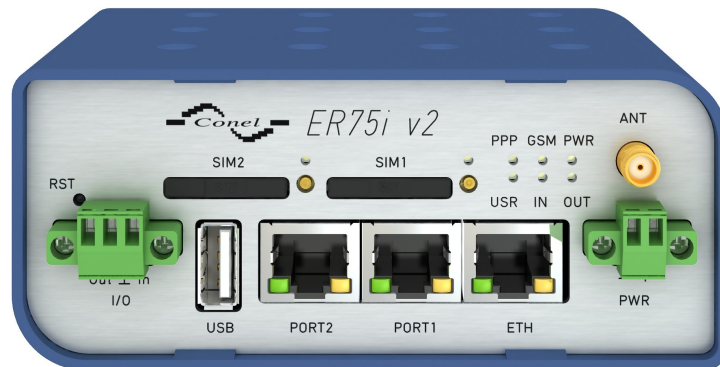


User Module

WoL Gateway

APPLICATION NOTE



ADVANTECH

Used symbols



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



Attention – Problems that may arise in specific situations.



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



Example – example of function, command or script.



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1. Description of user module



User module *WoL Gateway* is not contained in the standard router firmware. Uploading of this user module is described in the Configuration manual (see [1, 2]).



The user module is v2 and v3 router platforms compatible.

This module allows router to listen to communication on the specified UDP port, receive packets from a predetermined source (*Source IP*) and forward these packets to appropriate address (*Destination IP*) as a broadcast. The module also puts the final touches to DHCP server configuration.

For configuration *WoL Gateway* user module is available web interface, which is invoked by pressing the module name on the *User modules* page of the router web interface. The left part of the web interface (ie. menu) contains only the *Return* item, which switches this web interface to the interface of the router.

WoL Gateway

Customization		WoL Gateway Configuration		
Return	<input type="checkbox"/> Enable WoL Gateway Source IP <input type="text"/> Destination IP <input type="text" value="192.168.1.255"/> UDP Port <input type="text" value="1230"/> FTP Server IP <input type="text"/> Domain Name <input type="text"/> Domain Name Servers <input type="text"/> <input type="text"/> <input type="text"/>			
<input type="button" value="Apply"/>				

Figure 1: Web interface

2. Configuration of user module

The actual configuration of this user module is performed via the form on the right side. The first item in this form – *Enable WoL Gateway* – is used to activate these user module. Meaning of other items is described in the table below:

Item	Description
Source IP	Source IP address (packets are received from this address)
Destination IP	Destination IP address (packets are forwarded to this address)
UDP Port	UDP port used for communication
FTP Server IP	IP address of an FTP server (corresponds to DHCP parameter 161)
Domain Name	Domain Name
Domain Name Servers	Specifies up to three DNS servers

Table 1: Description of items in web interface

All changes will take effect after pressing the *Apply* button.

The screenshot shows a web interface titled "WoL Gateway Configuration". At the top, there is a checkbox labeled "Enable WoL Gateway". Below this, there are several input fields: "Source IP" (empty), "Destination IP" (containing "192.168.1.255"), "UDP Port" (containing "1230"), "FTP Server IP" (empty), "Domain Name" (empty), and "Domain Name Servers" (three empty input boxes). At the bottom left of the form, there is an "Apply" button.

Figure 2: Configuration form

3. Recommended literature

- [1] Advantech B+B SmartWorx: **v2 Routers Configuration Manual** (MAN-0021-EN)
- [2] Advantech B+B SmartWorx: **SmartFlex Configuration Manual** (MAN-0023-EN)
- [3] Advantech B+B SmartWorx: **SmartMotion Configuration Manual** (MAN-0024-EN)
- [4] Advantech B+B SmartWorx: **SmartStart Configuration Manual** (MAN-0022-EN)
- [5] Advantech B+B SmartWorx: **ICR-3200 Configuration Manual** (MAN-0042-EN)



Product related documents can be obtained on *Engineering Portal* at <https://ep.advantech-bb.cz/> address.