

ADVANTECH



PPP Gateway



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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.



Example – Example of function, command or script.

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1. Changelog

1.1 PPP Gateway Changelog

v1.0.0 (2014-01-16)

- First release

v1.0.1 (2015-11-30)

- Added new option - enable/disable deflate compression

v1.1.0 (2017-03-20)

- Recompiled with new SDK

2. Description of router app



Router app *PPP Gateway* is not contained in the standard router firmware. Uploading of this router app is described in the Configuration manual (see Chapter [Related Documents](#)).



The router app is not compatible with v4 router platform.

This module allows the router to establish connection via PPP (data link protocol commonly used in establishing a direct connection between two networking nodes) between router and device which is connected to the router over a serial line. For example, this way it is possible to provide Internet access for older devices which do not have this ability, but have the use of connection over a serial line.

For configuration *PPP Gateway* router app is available web interface, which is invoked by pressing the module name on the *Router apps* page of the router web interface. The left part of the web interface contains the menu with pages for *Configuration*, monitoring (*Status*) and *Customization* of the module. *Customization* block contains only the *Return* item, which switches this web interface to the interface of the router.

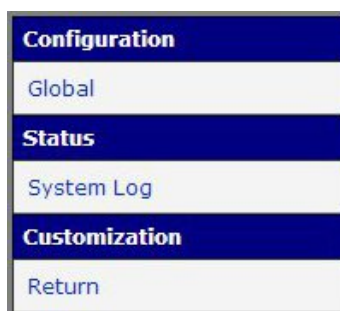


Figure 1: Menu of web interface

3. Configuration

Configuration of *PPP Gateway* router app is performed via the form on the *Global* page in the *Configuration* part of the module web interface. The first item in the configuration form – *Enable PPP Gateway* – is used to activate this router app. Meaning of other items is described below.

Item	Description
Expansion Port	Port to which the device is connected
Baudrate	Communication speed
Username	User name to log into the network
Password	Password to log into the network
Authentication	Authentication protocol: <ul style="list-style-type: none">• PAP or CHAP – router chooses one of these two methods• PAP – it's used PAP authentication method• CHAP – it's used CHAP authentication method
Local IP	IP address of the local side
Remote IP	IP address of the remote side
Primary DNS	Primary DNS server
Secondary DNS	Secondary DNS server
Serving MS Windows clients	It should be ticked when the connected device uses the operating system MS Windows

Table 1: Description of items in the configuration form

In the bottom of the window can be activated connection check by ticking the *Check connection* check box. This check is intended to recognize throughput of a route. It is possible to set the time delay between outgoing requests (checks) in the *Interval* field.

Any changes must be confirmed by pressing *Apply* button.

PPP Gateway Configuration	
<input type="checkbox"/> Enable PPP Gateway	
Expansion Port	PORT1
Baudrate	9600
Username	
Password	
Authentication	PAP or CHAP
Local IP	
Remote IP	
Primary DNS *	
Secondary DNS *	
<input type="checkbox"/> Serving MS Windows clients	
<input checked="" type="checkbox"/> Check connection	
Interval	30 sec
* can be blank	
<input type="button" value="Apply"/>	

Figure 2: Configuration form

3.1 System log

In case of any problems it is possible to view the system log by pressing the *System Log* menu item. In the window are displayed detailed reports from individual applications running in the router including possible reports relating to the *PPP Gateway* module.

System Log	
System Messages	
2014-02-05 11:02:21 pppd[1237]: rcvd [IPCP ConfNak id=0x22]	
2014-02-05 11:02:21 pppd[1237]: sent [IPCP ConfReq id=0x23 addr 0.0.0.0 ms-dns1 0.0.0.0 ms-dns2 0.0.0.0]	
2014-02-05 11:02:22 pppd[1237]: rcvd [IPCP ConfReq id=0x0]	
2014-02-05 11:02:22 pppd[1237]: sent [IPCP ConfNak id=0x0 addr 192.168.254.254]	
2014-02-05 11:02:22 pppd[1237]: rcvd [IPCP ConfRej id=0x23 ms-dns2 0.0.0.0]	
2014-02-05 11:02:22 pppd[1237]: sent [IPCP ConfReq id=0x24 addr 0.0.0.0 ms-dns1 0.0.0.0]	
2014-02-05 11:02:22 pppd[1237]: rcvd [IPCP ConfReq id=0x1]	
2014-02-05 11:02:22 pppd[1237]: sent [IPCP ConfAck id=0x1]	
2014-02-05 11:02:22 pppd[1237]: rcvd [IPCP ConfNak id=0x24 addr 10.0.3.188 ms-dns1 10.0.0.1]	
2014-02-05 11:02:22 pppd[1237]: sent [IPCP ConfReq id=0x25 addr 10.0.3.188 ms-dns1 10.0.0.1]	
2014-02-05 11:02:22 pppd[1237]: rcvd [IPCP ConfAck id=0x25 addr 10.0.3.188 ms-dns1 10.0.0.1]	
2014-02-05 11:02:22 pppd[1237]: local IP address 10.0.3.188	
2014-02-05 11:02:22 pppd[1237]: remote IP address 192.168.254.254	
2014-02-05 11:02:22 pppd[1237]: primary DNS address 10.0.0.1	
2014-02-05 11:02:22 pppd[1237]: Script /etc/scripts/ip-up2 started (pid 1590)	
2014-02-05 11:02:22 pppd[1237]: Script /etc/scripts/ip-up2 finished (pid 1590), status = 0x0	
2014-02-05 11:02:22 bard[655]: received signal 1	
2014-02-05 11:02:22 bard[655]: backup route selected: "Mobile WAN"	
2014-02-05 11:02:22 bard[655]: script /etc/scripts/ip-up started	
2014-02-05 11:02:23 bard[655]: script /etc/scripts/ip-up finished, status = 0x0	
2014-02-05 11:02:24 dnsmasq[755]: reading /etc/resolv.conf	
2014-02-05 11:02:24 dnsmasq[755]: using nameserver 10.0.0.1#53	
2014-02-05 11:02:41 ntpd[897]: error resolving hostname pool.ntp.org	
2014-02-05 11:03:07 login[1672]: root login on `tty0`	
2014-02-05 11:03:16 ntpd[897]: error resolving hostname pool.ntp.org	
<input type="button" value="Save"/>	

Figure 3: Systémový log

4. Related Documents

You can obtain product-related documents on *Engineering Portal* at icr.advantech.cz 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 [DevZone](#) page.