



Release Note

Barionet 50 V2.00

Firmware name:	Barionet 50 V2.00		
Released:	07. December 2010		
Package name:	barionet50_kit_v0200_20101207		
Version overview:	Type	File name	Version Date
	Firmware	bn50.rom	V02.00_20101207
	WEB UI	bario50web.cob	V01.07_20101203
	FW Ext. 1	sg.bin	V08.17_20101118
	FW Ext. 2	bclio.bin	V01.18_20101110
	Bootloader	exfull.rom	V99.18_20101207
	BCL app.	barionetbcl.cob	V01.23_20101129

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I Hardware Compatibility

This firmware is intended to run on the following devices:

- Barionet 50

Note: This firmware is not suitable for the Barionet 100, since the Barionet 100 has a different hardware architecture.

2 New Features

The following features have been introduced in the Barionet50 v2.00 software (compared to the version 1.09):

- #065.07: virtual bit registers 205-300 for compatibility with Barionet 100
- #048.21, #064.22, #065.12, #065.13: programmable I-wire interface
- #064.63: Barionet SNMP trap described in the MIB
- #064.64: removed one user limitation in password protected mode
- BCL interpreter version 1.5 (see more in Major Modifications below)
- Bootloader version 99.18 (see more in Major Modifications below)

3 Bugs Fixed In This Version

The following bugs have been fixed in the Barionet50 v2.00 software (compared to the version 1.09):

- #048.07: wrong function of RMTHOST/RMTPORT
- #051.09: wrong initialization of RTS on the first serial port
- #064.14: Incorrect protocol version in “ICMP port unreachable” message
- #064.15: memory corruption due to wrong usage of TCP transmit FIFO
- #064.58: LF and binary zero recognized as terminator in UDP protocol

4 Known Bugs

- #064.25: After applying factory defaults the WEB Port is 80 instead of 0

5 Major Modifications

5.1 Default application

The default application has changed from the “io_tunnel” to “serial_io_tunnel”. The new application allows besides tunnelling of contact closures also transmission of serial data.

5.2 BCL interpreter

BCL version 1.5 has been implemented in this version of firmware. It include the following improvements:

- Number of integer variables increased to 255
- Number of string variables increased to 255
- Number of handles increased to 16
- Variable names up to 32 significant characters (before only 5 characters)
- Maximum label number reduced to 32767
- Optimisation of IF-THEN-ELSE construct
- Increased performance of the interpreter

For backward compatibility token code versions 1.3 and 1.4 are supported as well.

Note: If you have token code 1.2 or older, please recompile your source with the included tokenizer.

5.3 One wire interface

A software interface to the I-wire bus has been added to the BCL interpreter. BCL applications now can access any device on the bus through the “OVR” handle. See more the BCL Programmers Manual [4].

5.4 Bootloader

The bootloader has been updated, its current version is 99.18. A new bootloader will be loaded only if you perform serial update.

The following changes have been implemented in the bootloader:

- #068.02: Barix Discovery support
- #068.04: serial output of the bootloader disabled in WEB Update mode
- #068.05: improved file upload speed in WEB Update
- #021.09, #068.07: protection against overwriting the bootloader during update
- #068.10: protection against fatal behaviour if bootloader uploaded to WEB14,13,11 or 7

6 References

	Document
[1]	Barionet 50 Manual
[2]	Barionet 50 WEB Page
[3]	Barionet 50 Update, Rescue and Development Kit
[4]	BCL Programmers Manual v1.13

7 Legal Information

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