

Serial J1708/J1939 interface (FTI06003)

Software Installation Manual

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Table of contents

	Page #
References	5
Introduction	6
About the installation manual	6
Abbreviations list	7
Revision history	7
Safety instructions	8
1. Settings and adjustments	9
1.1 Firmware upgrade (new):	9
1.2 Firmware upgrade (old):	9
2. Technical specifications	10

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References

B&B electronics website:

<http://www.bb-europe.com/?gclid=CMf6kv-ugaECFVKX2AodDVPpDw>

B&B electronics tech support:

http://www.bb-elec.com/technical_library.asp

Introduction

The Software Installation Manual provides instructions for configuring and upgrading the J1708/J1939 interface as used within FT NavVision®. The chapters and sections are organized in chronological order in which the specific component must be configured (where applicable).

NOTE

This section provides only a summary of the most important safety requirements and notes, which will be mentioned in the individual sections. To protect your health and prevent damage to the devices, it is essential to read and carefully follow the safety instructions.

About the installation manual

The Software Installation Manual contains the following chapters:

- Chapter “Safety instructions” presents warning, caution and note information, which the user should pay attention to.
- Chapter “Settings and adjustments” contains instructions on how to set and adjust the interface (where applicable).

Abbreviations list

N/A

Revision history

Revisions issued since publication.

Issue	Date	Revision	Reason
1.0	May 4, 2010		First release

Safety instructions

The indications NOTE, CAUTION and WARNING have the following significance:

NOTE

An operating procedure, practice or condition etc., which it is essential to emphasize.

CAUTION

An operating procedure, practise or condition etc., which, if not strictly observed, may damage or destroy equipment.

WARNING

An operating procedure, practise or condition etc., which, if not carefully observed may result in personal injury or loss of life.

1. Settings and adjustments

1.1 Firmware upgrade (new):

1. Connect the HDV100A2 to a PC Serial port
2. Run "BBDeviceProgrammer_V122.exe"
3. Select the COM port number
4. Select the device as "HDV100A2"
5. Click the button labeled with '...' and select the "HDV100A3_V111.HEX" firmware file
6. Select the correct baud rate: should be 115200 (or 9600?)
7. Click "Program"
8. Wait for program completed.

To tell FT NavVision®, version 8 or newer, that you've upgraded to HDV100A3 you need to set the device type in "comm.ini" to "VIAHDV100A3".

The FT NavVision® logbook will now say you are using version 1.0101, model BB.

1.2 Firmware upgrade (old):

1. Unzip "firmware.zip"
2. Run "Setup.exe" to install DeviceProgrammer.exe
3. Disconnect the HDV100A2 from the Vehicle power
4. Connect the HDV100A2 to a PC Serial port
5. Run "DeviceProgrammer.exe"
6. Select the COM port number on the left hand side (Ignore the right)
7. Select the device as "EATNDL16"
8. Click the button labeled with '...' and select the "HDV100A3.HEX" firmware file
9. Connect the HDV100A2 to vehicle power
10. Click "Program" within 5 seconds of power connection
11. Wait for status bar to indicate program completed.

To tell FT NavVision®, version 6.00.05.003 or newer, that you have upgraded to HDV100A3 you need to set the device type in "taskbar.ini" to "VIAHDV100A3":

[Communications]

J1939Device=COM2,LAN1

LanServer1=V-Linx ESP-904,10.10.10.42,4000,5300

Device2=COM2,9600,n,8,1

DeviceType2=VIAHDV100A3

Device34=LAN1,9600,n,8,1,10.10.10.42,4000,5300

DeviceType34=VIAHDV100A3

2. Technical specifications

Detail	Description
Dimensions	104.1 x 43.2 x 20.3 mm
RS-232 connection	DB9 female, DCE
Bus connection	DB15 female
Pins 6, 7	Ground
Pin 8	Power
Pins 12, 13	CAN low, CAN high
Pins 14, 15	J1708-, J1708+
Operating temperature	-40 to 85 °C
Input voltage	10 to 42 VDC
Input current @12 VDC	50 mA typical, 134 mA max.