AWT210 communications module
Software update procedure

Measurement made easy

—
**AWT210
communications module**

Introduction

This publication details the procedure for upgrading the module software revision in the AWT210 communications modules. The procedure must be carried out by a trained technician.

The contents of the upgrade is shown below:

Description	Part number
Module programming jig	3KXA872210L0123

For more information

Further information is available from:
www.abb.com/measurement
or by scanning these codes:

Sales   Service

Contents

1 Health and safety

Document symbols

Symbols that appear in this document are explained below:

> ⚠ **DANGER**
>
> DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

> ⚠ **WARNING**
>
> WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

> ⚠ **CAUTION**
>
> CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

> *NOTICE*
>
> NOTICE is used to address practices not related to physical injury.

Note
Upgrades should be carried out by authorized and trained service personnel only.

Safety precautions

Be sure to read, understand and follow the instructions contained within this manual before and during use of the equipment. Failure to do so could result in bodily harm or damage to the equipment.

2 Installing the software

Please use the following link to download and install the Flash development tool kit 4.09 software:

http://www.renesas.com/us/en/software-tool/flashdevelopment-toolkit-programming-gui.

Note. You will be required to register with Renesas in order to download this software.

3 Downloading the module software

The communications module software files can be downloaded using the following links. Ensure to select the correct file for the communications module you wish to upgrade:

HART®:
https://search.abb.com/library/Download.aspx?DocumentID=SW%2FAWT210%2FHART&LanguageCode=en&DocumentPartId=&Action=Launch.

PROFIBUS®:
https://search.abb.com/library/Download.aspx?DocumentID=SW%2FAWT210%2FPROFIBUS&LanguageCode=en&DocumentPartId=&Action=Launch.

Fieldbus®:
https://search.abb.com/library/Download.aspx?DocumentID=SW%2FAWT210%2FFIELDBUS&LanguageCode=en&DocumentPartId=&Action=Launch.

4 Upgrade procedure

1 Remove module from AWT assembly or packaging.

2 Open the module programmer box lid by placing a flat bladed screwdriver in the hole and opening the catch. Refer to Figure 1.
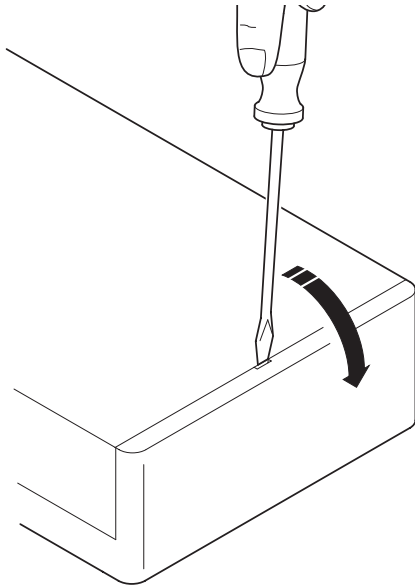

Figure 1 Opening the module programmer box

3 Place the module you wish to program as shown. Refer to Figure 2 (A).

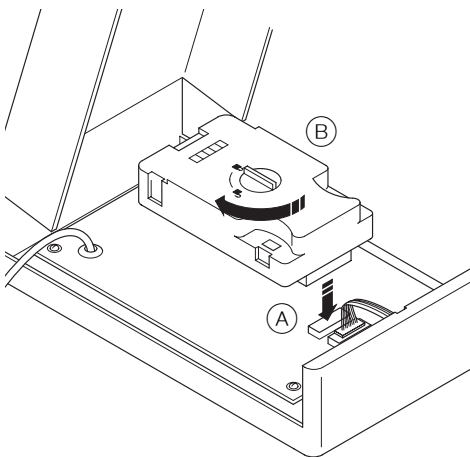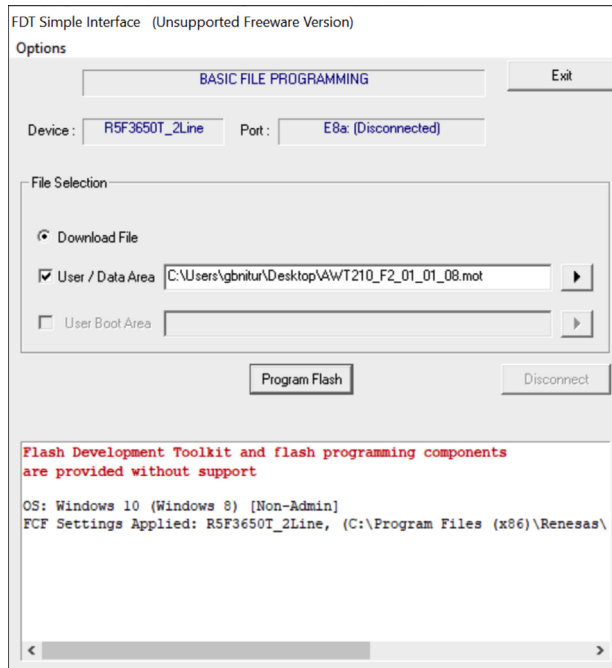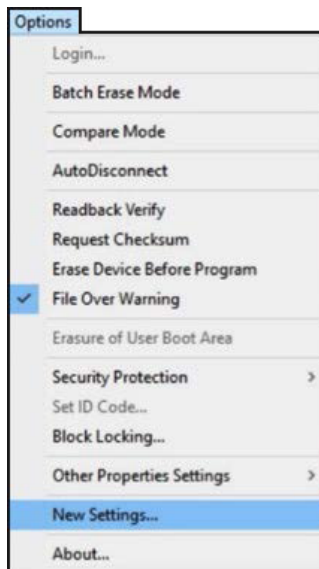**4** Push the module locking mechanism down and turn it clockwise to lock the module in place. Refer to Figure 2 (B).

Figure 2 Figure 2 Programming the module

Upgrading the HART module software

1 Plug USB cable into PC and open the flash development toolkit 4.09 Basic program.

2 Select options and 'New settings'.

3 Choose the device 'R5F363AM_2Line' and press Next.

4 Select the communications port as 'E8a'.
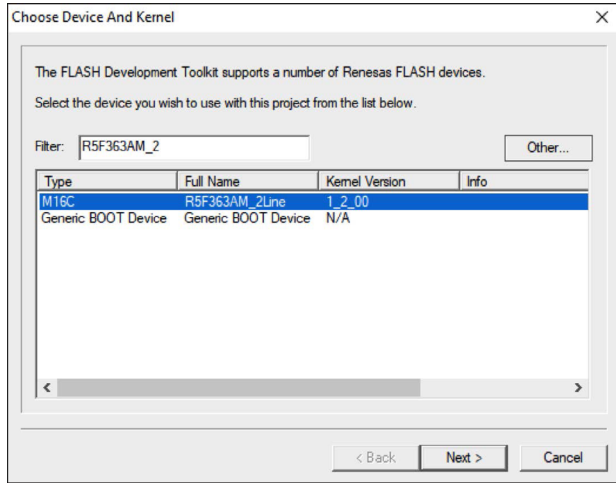
5 Ensure recommended speed is the highest and press Next.
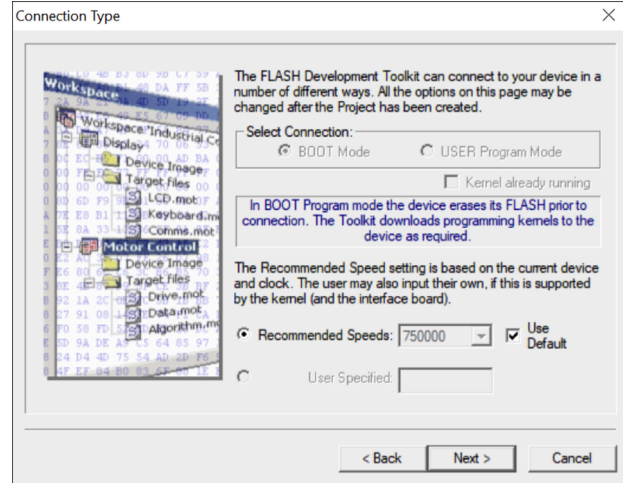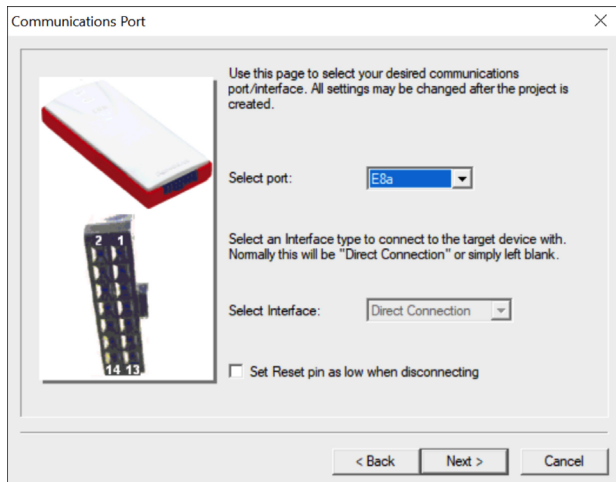
6 Ensure programming options are as shown:
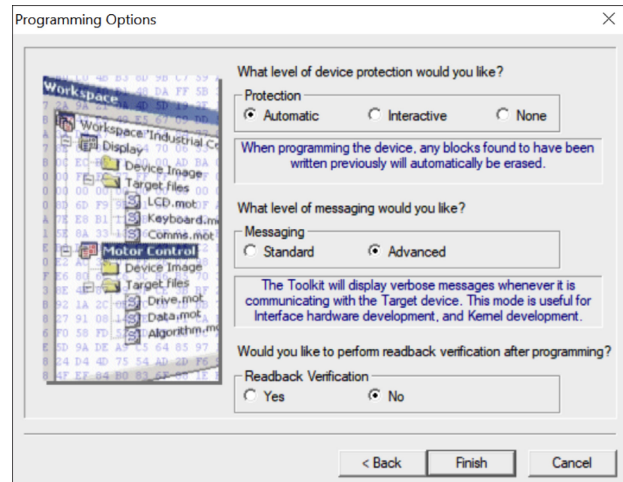
7 Press Finish.

...4   Upgrade procedure
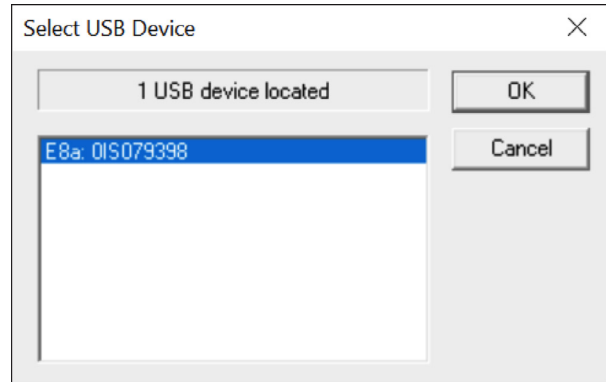
...Upgrading the HART module software

8 Select the software revision you wish to use:
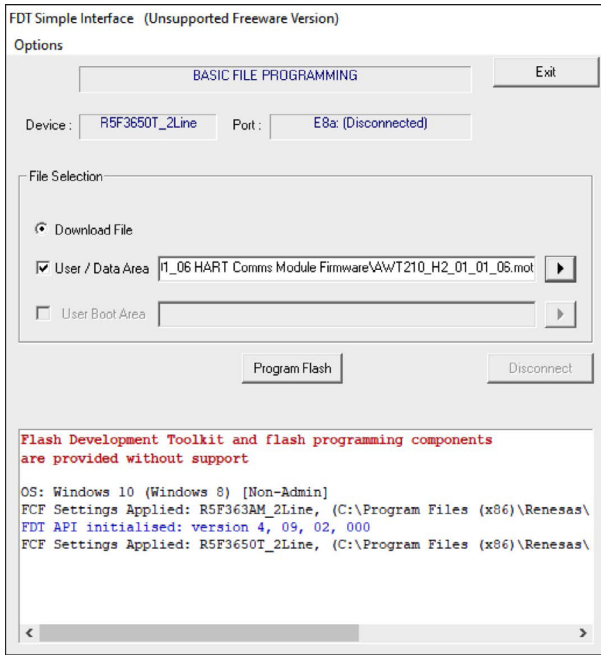
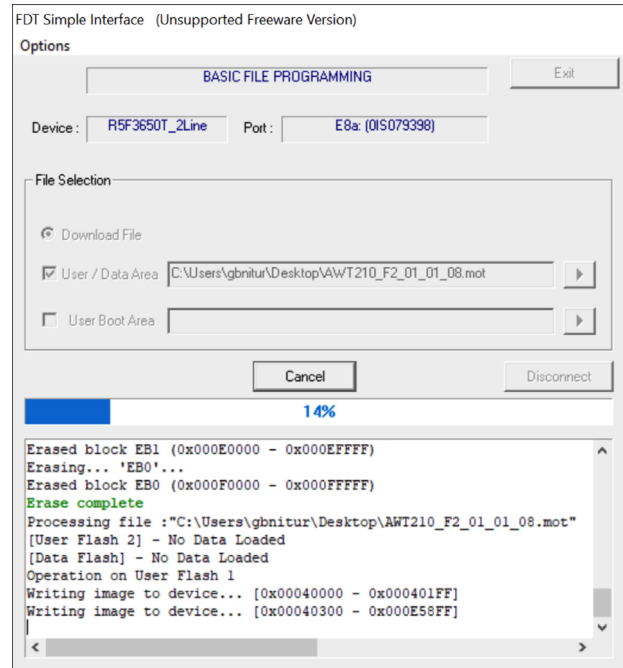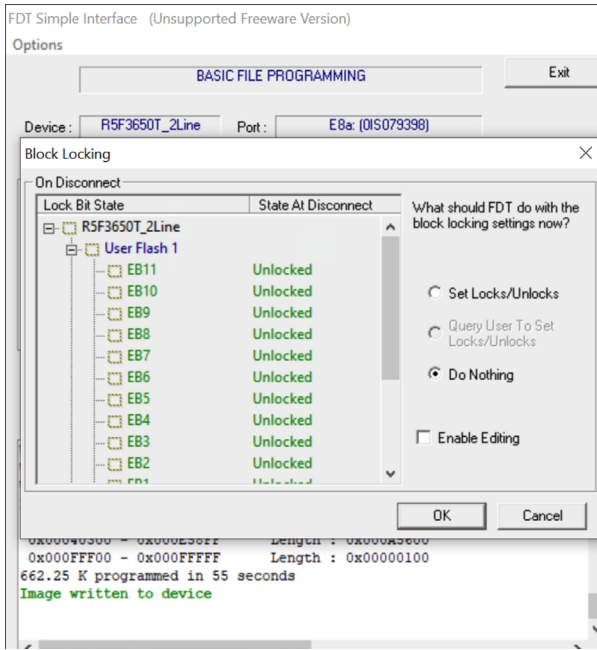**9** Press program flash and select 3.3V power supply, press OK.
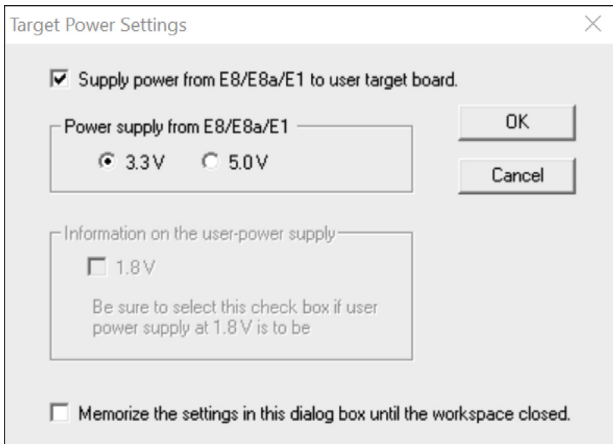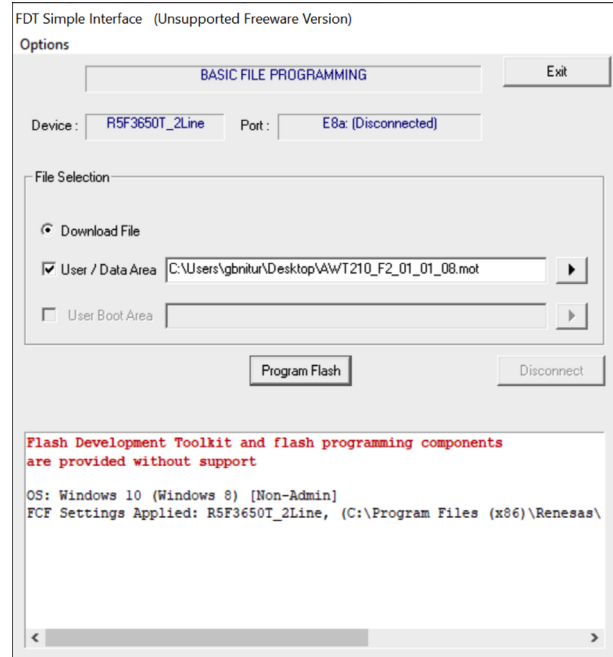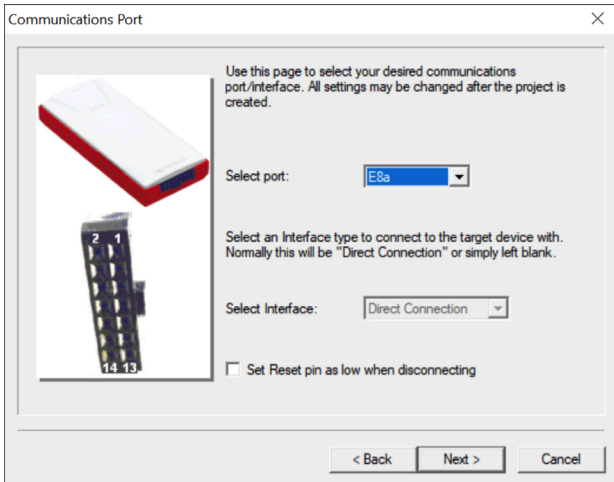

10 Press OK.

11 The software will update:

12 Select the communications port as 'E8a'.

13 Press OK, The module has now been upgraded.

Upgrading the Fieldbus module software

1 Plug USB cable into PC and open the flash development toolkit 4.09 Basic

2 Select options and 'New settings'.
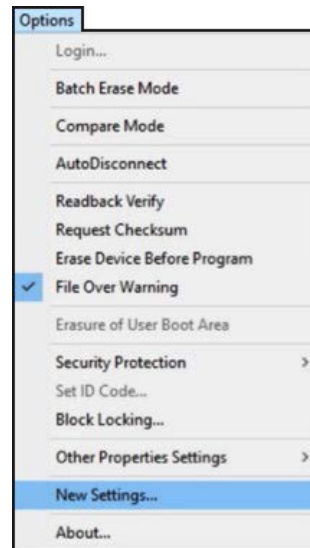
...4   Upgrade procedure

...Upgrading the Fieldbus module software
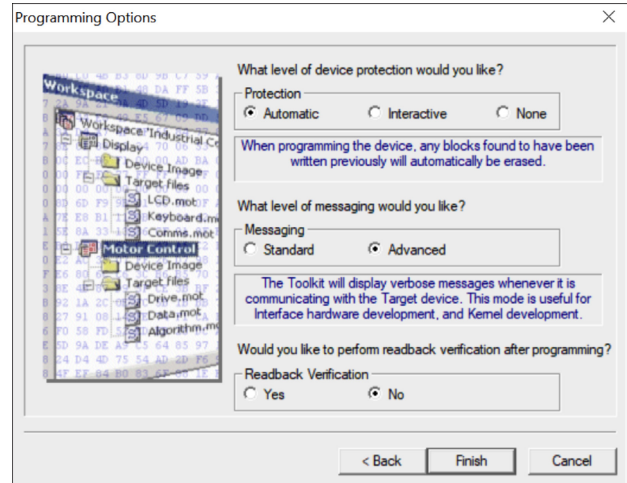
3 Choose the device R5F3650T_2 Line.
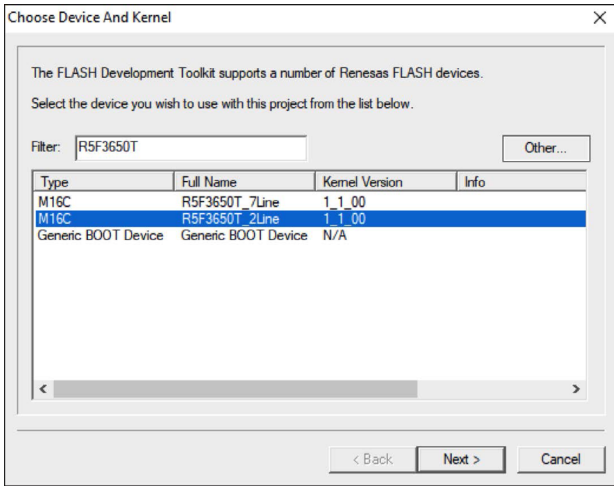
4 Select the communications port as 'E8a'.
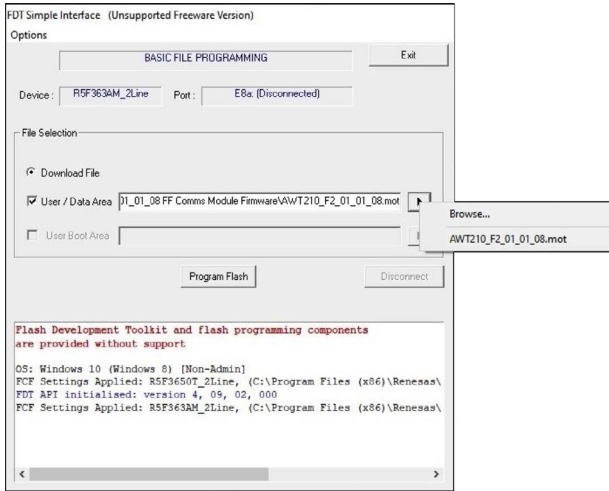

5 Untick Use Default and select speed 250000 settings and press Next.
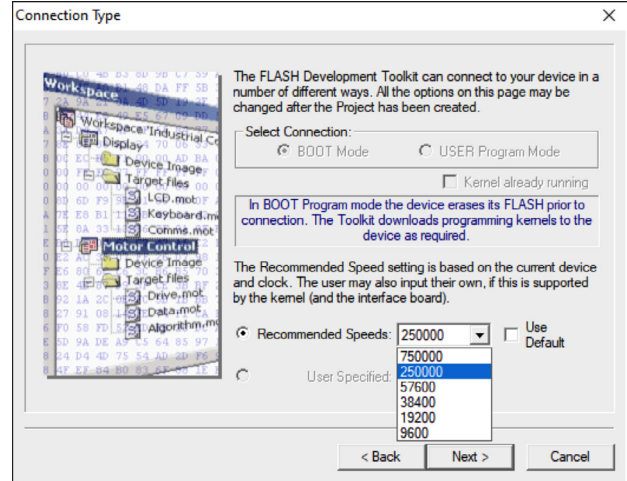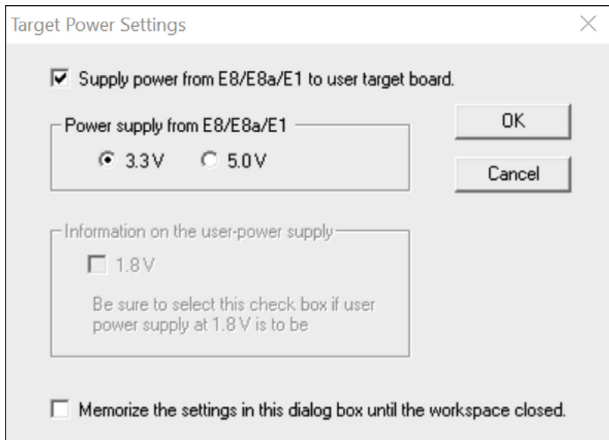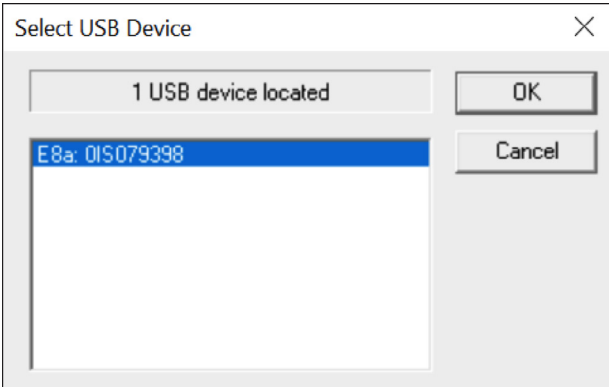

6 Ensure programming options are as shown:

7 Press Finish.

8 Select the software revision you wish to use:

9 Press program flash and select 3.3V power supply, press OK.
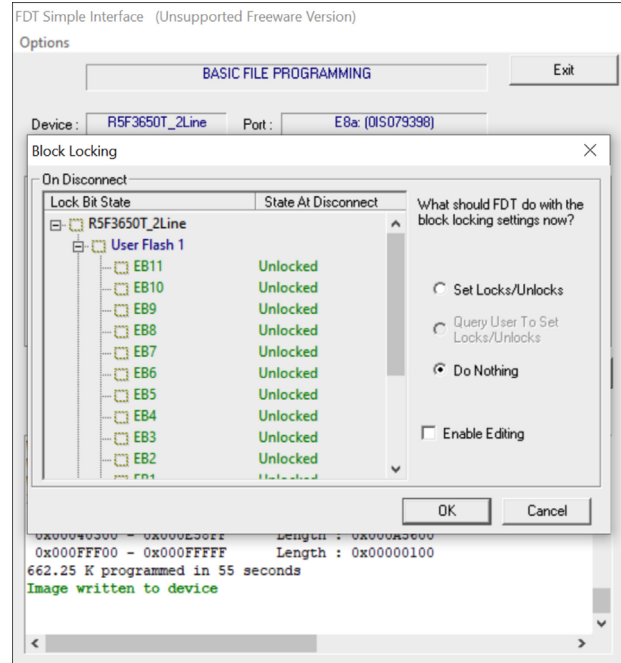

10 Press OK.

11 The software will update:
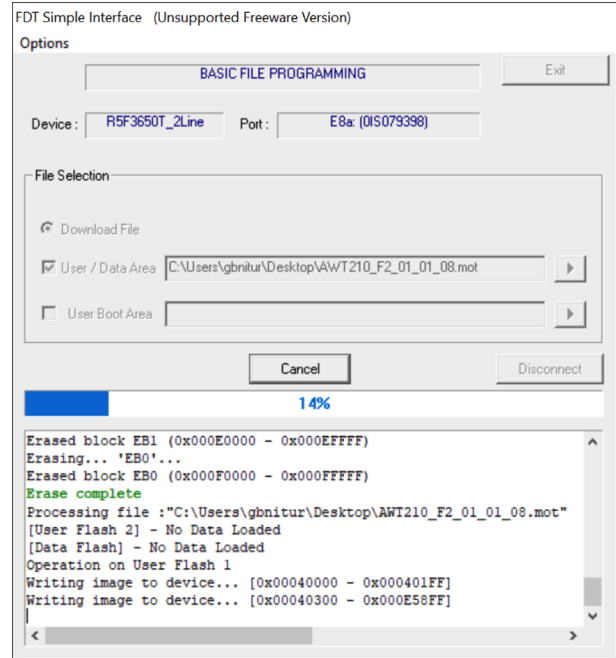
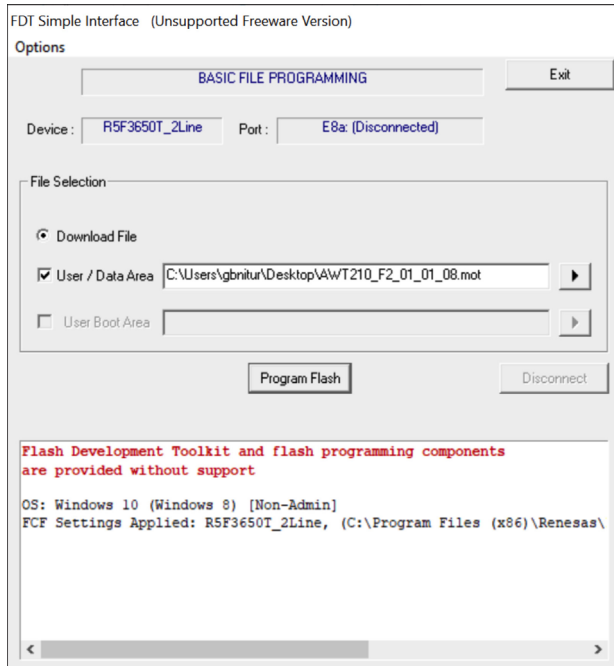
12 Once finished press disconnect:

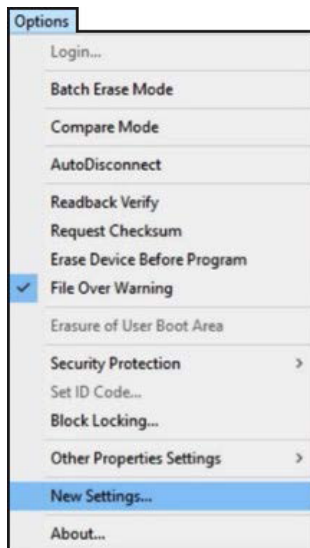**13** Press OK, The module has now been upgraded.

...4   Upgrade procedure

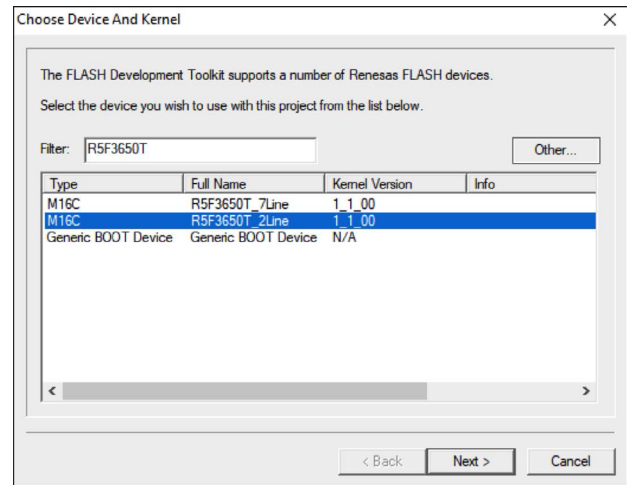## Upgrading the PROFIBUS module software

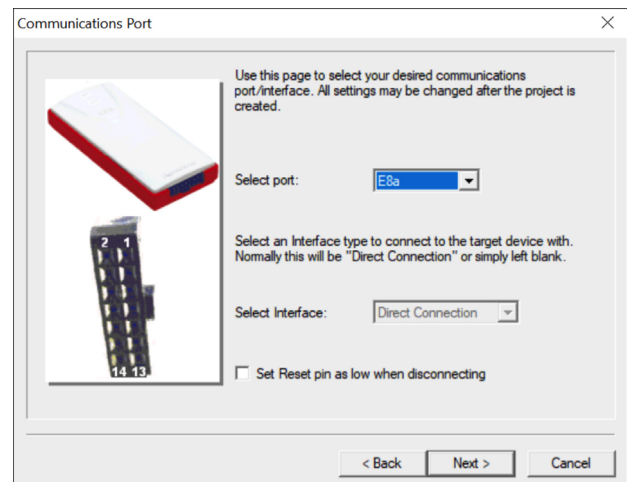**1** Plug USB cable into PC and open the flash development toolkit 4.09 Basic
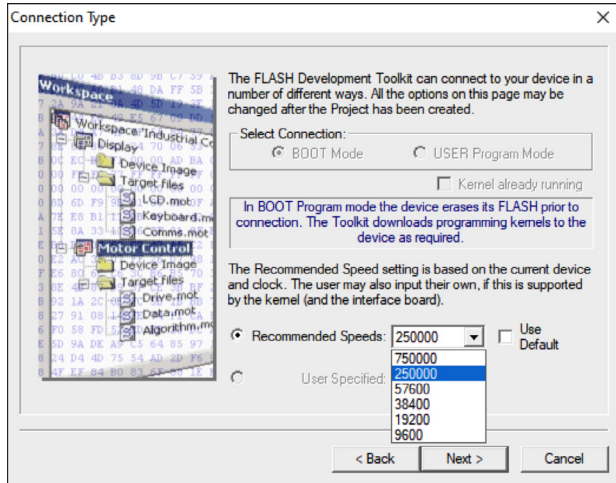

2 Select options and 'New settings'.

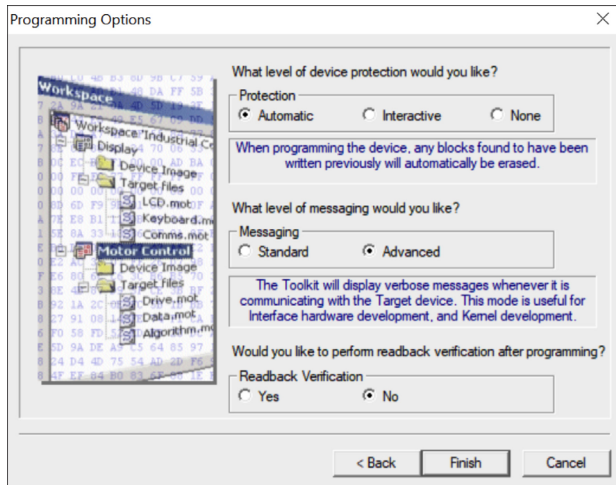**3** Choose the device R5F3650T_2 Line.

4 Select the communications port as 'E8a'.

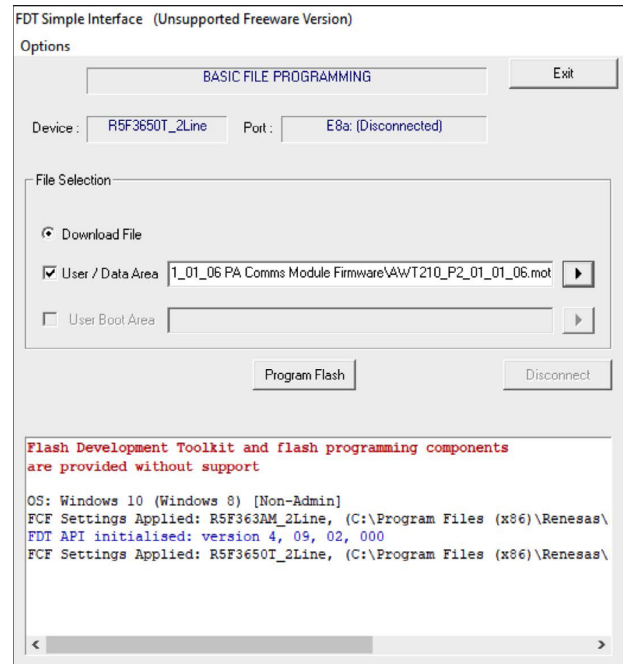**5** Untick Use Default and select speed 250000 settings and press Next.

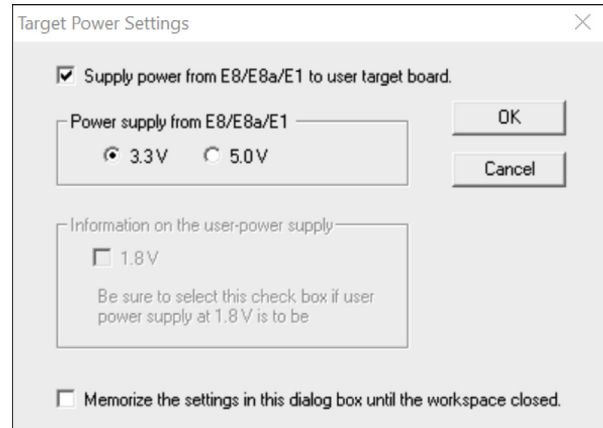**6** Ensure programming options are as shown:

7 Press Finish.

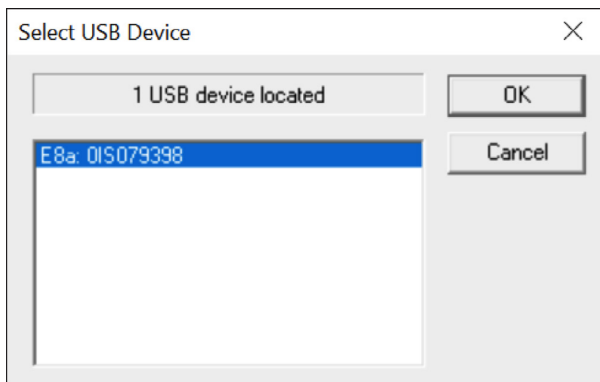**8** Select the software revision you wish to use:

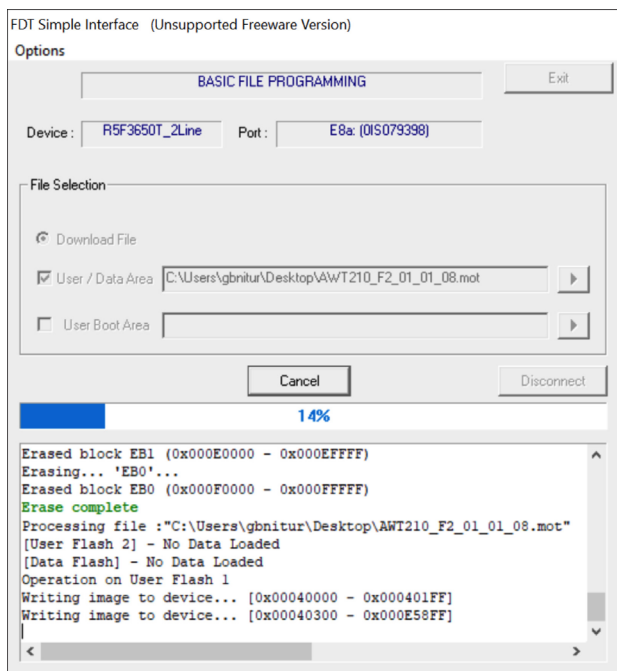**9** Press program flash and select 3.3V power supply, press OK.

...4 Upgrade procedure
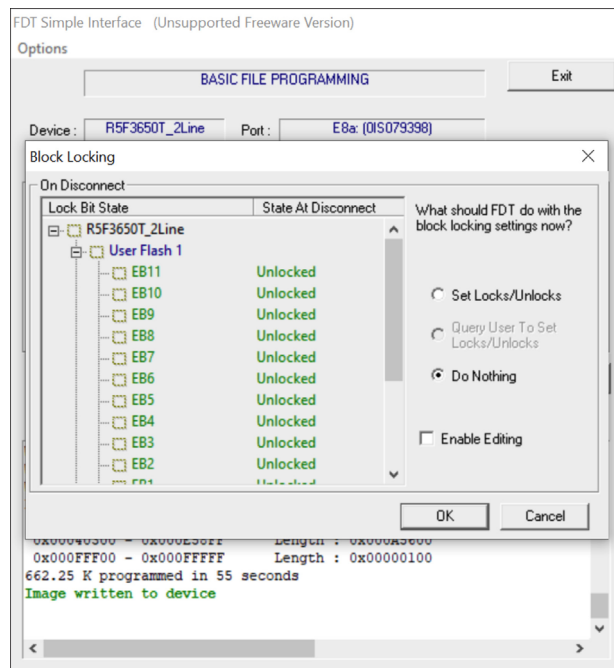
...Upgrading the PROFIBUS module software

10 Press OK.

11 The software will update:

12 Once finished press disconnect:

5   Resetting the unit

On first power up after upgrade please reset the unit to default settings by following the below steps:

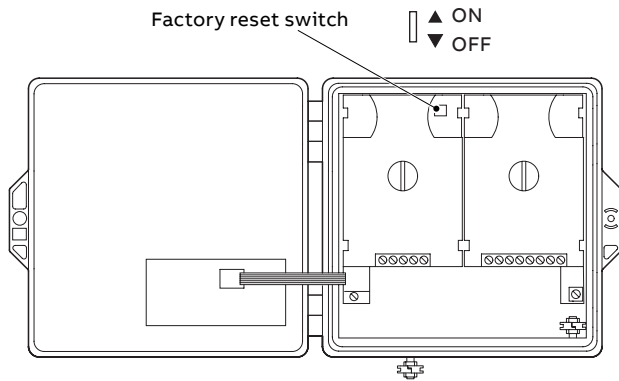1   Set the factory reset switch to the 'ON' position. Refer to Figure 3.

Figure 3   Resetting the unit

2   Power up unit.

3   Once unit has powered up move the factory reset switch back to the 'OFF' position.

Acknowledgments

- Renesas is a trademark of Renesas Electronics Ltd
- HART is a registered trademark of the FieldComm Group
- PROFIBUS is a registered trademark of PROFIBUS Nutzerorganisation, e.V
- Fieldbus is a registered trademark of FieldComm Group

Notes

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ABB Measurement & Analytics

For your local ABB contact, visit:
www.abb.com/contacts

For more product information, visit:
www.abb.com/measurement