

CM910B

Direct Link / Flash Programmer - USB



Security Systems

EN

Installer Reference Guide
Security System

BOSCH

CM910B - COMBINED DIRECT LINK / FLASH PROGRAMMING MODULE

Introduction

The CM910B combined Direct Link / Flash Programmer module allows you to connect your PC or notebook to the control panel for on-site RAS sessions or to update control panel firmware using a single cable connected directly to a Windows PC USB port.

Module Compatibility Panels Supported
Solution 16i
Solution 16Plus
Solution 64
Solution 144
Solution 6000

Table 1: Module Compatibility

Installing the USB Driver

Regardless of whether you are doing a direct link connection or flash updating the first thing you have to do is to setup the correct USB driver in your computer.

Most late versions of the Windows operating systems will already have in built driver support for the CM910B provided that all OS updates have been applied.

Plug the CM910B cable into a spare USB port on the PC and note if the driver installs correctly. If not, you will need to locate the correct driver for your OS version and manually install it.

The driver can be found on the Solutionlink RAS DVD in the CM903 - USB to Serial Converter Driver folder or you can download a copy from the alarmsoftware.com.au website.

Configuring COM Ports

The flash update program is currently only capable of working on COM ports 1 - 4. If the USB driver has been installed on a COM port higher than 4 you will need to reconfigure the operating system so that it uses one of the first four COM ports for the CM910B.

To do this, make sure the module is connected then go to Start, Control Panel and select the Device Manager option. Scroll down and select Ports (COM&LPT). From the list locate the port currently assigned to the CM910B which will be called something like Prolific USB to Serial Comm Port and then right click on it and select Properties.

Next select Port Settings and then select Advanced. At the bottom of this page you will see an option to change the assigned COM port number. Change this to either COM 1,2,3 or 4 and then exit. The system will remember this new setting from now on.

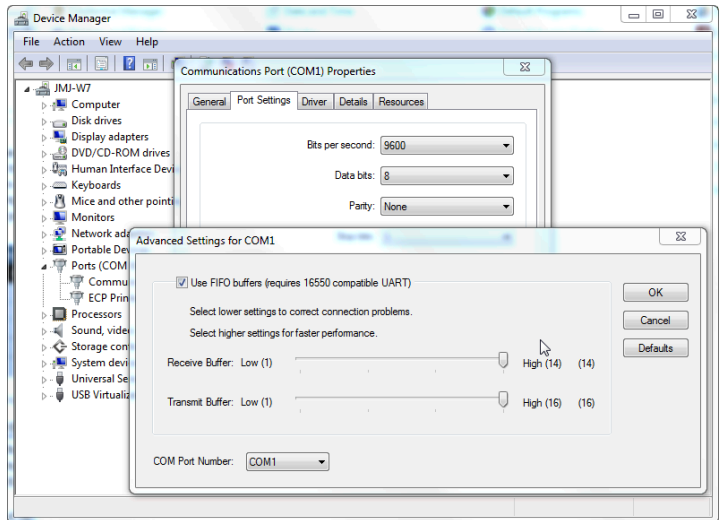


Figure 1: Device Manager - COM Port Selection

Flash Firmware Upgrade Files

The following panels and modules can be firmware updated to add new features and or to provide bug fixes to existing installations. Firmware update files are available from your nearest Bosch distributor on request.

- Solution 16i
- Solution 16+
- Solution 64
- Solution 144
- Solution 6000

CM705B Universal Expander Module

Flash Updating Control Panels or Modules

Before you begin ensure you have the correct flash firmware file for the panel / module you are updating. To check the current panel or module type and firmware revision, enter installer programming mode and press MENU 7-0-0 or MENU 6-0-0 respectively.

The section explains how to perform the flash update. To check the current panel or module type and firmware revision, enter installer programming mode and press MENU 7-0-0 or MENU 6-0-0 respectively. Ensure you have the correct flash firmware file for the panel / module you are updating.

1. Remove power from the panel / module and connect the CM910B Direct Link / Flash Programmer to the 10 pin serial port connector on the board.

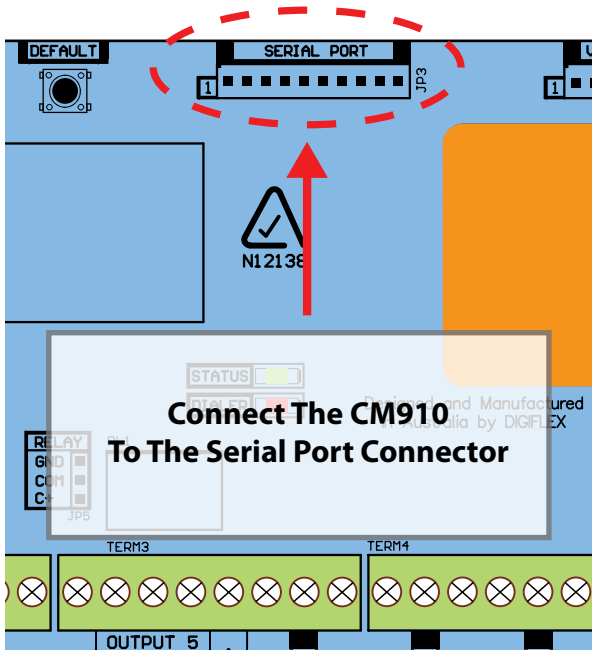


Figure 2: CM796B Connection Diagram

2. Slide the switch position on the CM910B cable to the 'Flash Prog' position. The red LED under the slide switch will turn on.
3. Connect the other end of the CM910B Direct Link / Flash Programmer to the computer USB port.
4. Connect power to the panel / module. Note that the green Status LED on the panel/module should not be flashing.
5. Unlike the direct link mode, the flash prog mode must be connected when the panel or module is powered down.
6. Run or double click the update file and follow the on screen instructions. When prompted, select the COM port the Flash Programmer Module is connected to. You need to confirm that want to erase all information currently in the panel / module to proceed.

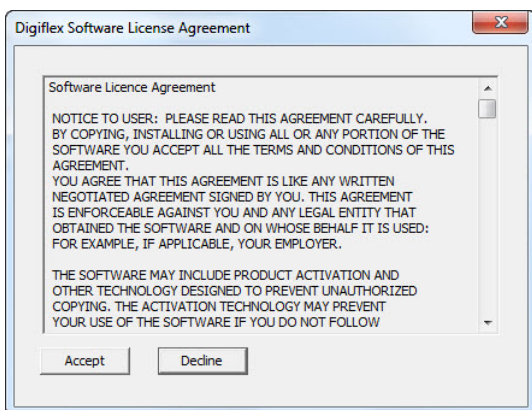


Figure 3: Flash Update License Agreement

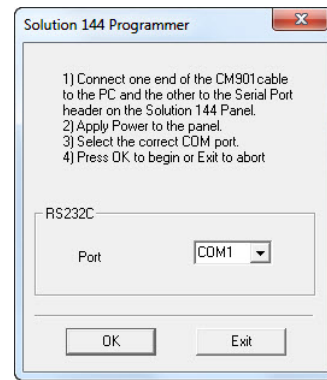


Figure 4: Flash Update COM Port Select



Figure 5: Flash Update Start

7. Once programming is complete, remove power from the panel / module and remove the CM910B module.
8. Reconnect power to the panel / module.
9. Process Completed.

Warning

The update program is capable of updating a number of different panel types and versions. Updating a panel with the wrong panel type will cause the panel to default back to factory setting when the update procedure is complete.

If you need to retain the programmed panel data you must make sure to use the correct file for your panel type. Refer to MENU 7-0-0 to verify the panel type and or MENU 6-0-0 to verify the module type.

It is recommended that you create a backup of all programming options using the Solutionlink upload/download software before attempting the firmware update.



The cable used to connect from the flash programmer to the panel's / module's serial port has been designed to provide a large number of reliable connections over its expected lifetime. In practise the cable will start to wear as it nears the end of its useable life and this may lead to problems during updating. If you suspect this is happening on your module contact your distributor for a replacement cable.

Direct Link RAS Session Via Solution Link

The section explains how to perform a direct connection between the laptop or PC running Solution Link software and the Solution control panel.

To check the current control panel type and RAS security PIN, at the system keypad, enter installer programming mode and verify the panel type in MENU 7-0-0 and MENU 5-3-1 to verify the current RAS security PIN.

Configuring Solution Link COM Ports

1. Run the Solution Link software and Log in. From the Main Menu, select Tools and then Preferences.

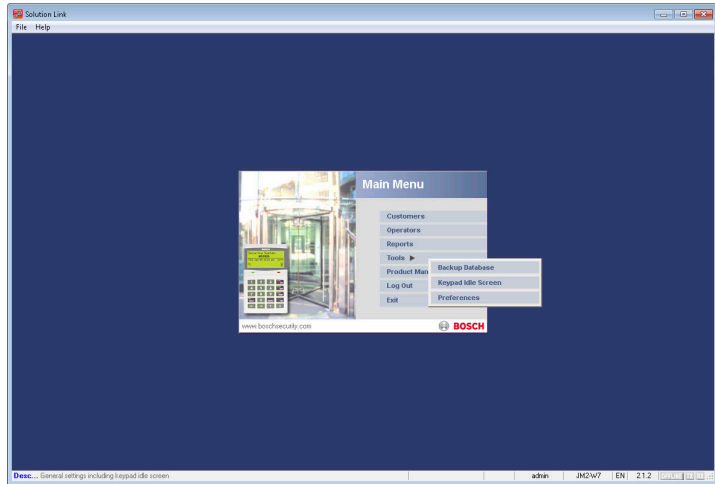


Figure 6: RAS Software - Main Menu

2. Set the Direct Link Port in the Solution Link software to match the COM port assigned to the CM910B Direct Link / Flash Programmer as determined earlier. When finished click save to return to the main menu.

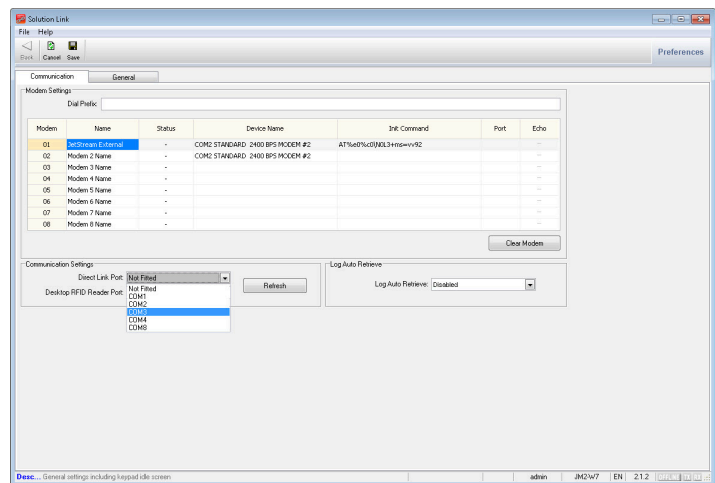


Figure 7: RAS Software > COM Port Selection

Direct Connect Procedure

1. Slide the switch on the CM910B Direct Link / Flash Programmer cable to the 'Direct Link' position.

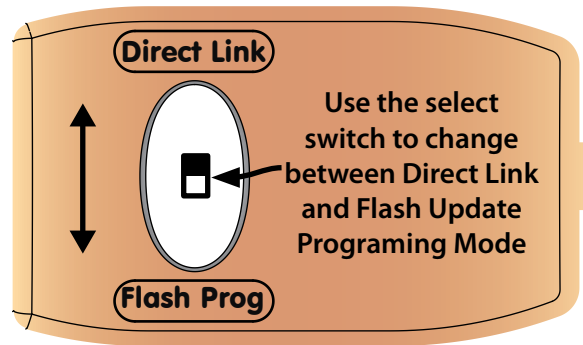


Figure 8: CM796B - Direct Link/Flash Prog Select Switch

2. Connect the CM910B Direct Link / Flash Cable to the USB port on the PC or Laptop computer.
3. Connect the CM910B Direct Link / Flash Programmer to the 10 pin serial port connector on the control panel PCB.
4. Log onto the Solution Link software and select the customer that you want to connect to. Both the Panel type and RAS Security PIN must match that of the control panel you wish to connect to.

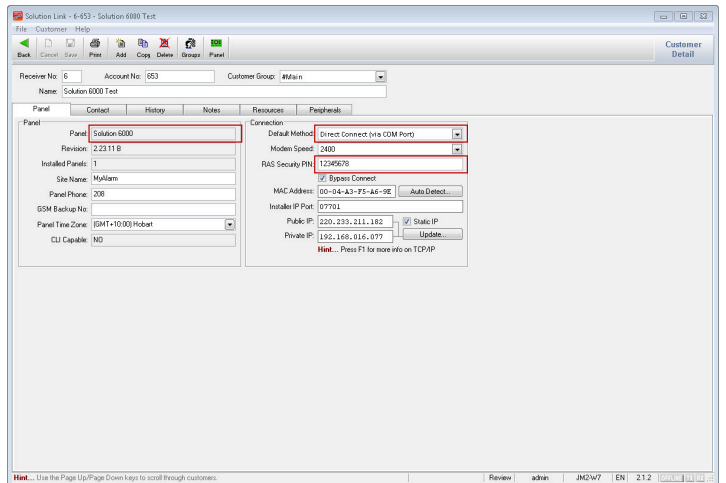


Figure 9: RAS Software > Panel Type & Default Type Connection Method

5. To begin the connect phase select the Panel icon from top of the screen and then select Connect. A pop-up box will be displayed asking you to select the required connection type.
6. From the list, select the COM Port assigned to the CM910B Direct Connect / Flash Programmer cable, then press OK to start a connection.

The CM910B is supplied with a 5 metre USB cable making it easy to program panels located in hard to reach places.

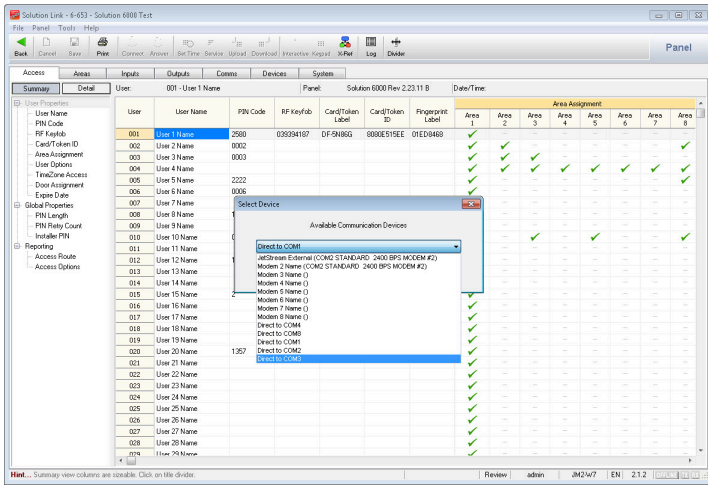


Figure 10: RAS Software - Connect Method Select

7. At the control panel, press and hold the control panel 'DEFAULT' button until the green STATUS LED on the control panel changes from the normal on/off flash to a slow on/off flash.
8. Providing both the panel type and RAS security PIN match in both the control panel and the Solution Link software, a RAS programming session should now be established.
9. When finished terminate the direct link session before removing the cable from the panel.



Figure 11: CM910B USB Cable

CM910B Specifications

Part Number: CM910B - Combined Direct Link / Flash Programmer

Operating Voltage: Supplied via computer USB port

Module Connection: Via 10 way flying lead to serial port header on the target device and 5M USB cable

Operating Environment: 0° to 55°C RH 5 to 85% at 30°C non-condensing.

Warranty: 3 years from date of manufacture (return to base)



In the interest of ongoing product development this document is subject to change without notice.

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