CM910B Direct Link / Flash Programmer - USB





Security Systems

Installer Reference GuideENSecurity System



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.

Bevice Manager	and the second second	a mart have	
File Action View Help			
	Communications Port (COM1) Properties	2	
AMJ-W7 Disk drives Disk drives	General Port Settings Driver Details Resources Bits per second: 9600 Date bits: 8 Party: None		
Network add	Sattings for COM1		23
→ Portable Dev → Portable Dev √→ Ports (COM → Commu → Commu → Commu → Sound, vide → Sound, vide → Sourde com → Sourde com → Sourde com → Universal Se → US8 Virtualia Tra	Use FIFO buffers (requires 16550 compatible UART) Select lower settings to correct connection problems. Select higher settings for faster performance. ceive Buffer: Low (1) nsmt Buffer: Low (1) vot Number: COM1 v	U High (14) (14)	OK Cancel Defaults

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.
- 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.

Software Licence Agreement	-
NOTICE TO USER: PLEASE READ THIS AGREEMENT CAREFULLY. BY COPYING, INSTALLING OR USING ALL OR ANY PORTION OF THE SOFTWARE YOU ACCEPT ALL THE TERMS AND CONDITIONS OF THIS AGREEMENT	
VOL AGREE THAT THIS AGREEMENT IS LIKE ANY WRITTEN NEGOTIATED AGREEMENT SIGNED BY YOU, THIS AGREEMENT IS ENFORCEABLE AGAINST YOU AND ANY LEGAL ENTITY THAT OBTAINED THE SOFTWARE AND ON WHOSE BEHALF IT IS USED: FOR EXAMPLE, IF APPLICABLE, YOUR EMPLOYER.	
THE SOFTWARE MAY INCLUDE PRODUCT ACTIVATION AND OTHER TECHNOLOGY DESIGNED TO PREVENT UNAUTHORIZED COPYING. THE ACTIVATION TECHNOLOGY MAY PREVENT YOUR USE OF THE SOFTWARE IF YOU DO NOT FOLLOW	÷

Figure 3: Flash Update License Agreement

1) Connect one to the PC and t header on the 9 2) Apply Power 3) Select the ci 4) Press OK to	e end of the CM901 cable he other to the Serial Port Solution 144 Panel. to the panel. orrect COM port. begin or Exit to abort
RS232C	
Port	COM1 -

Figure 4: Flash Update COM Port Select

To proceed with the firmware upgrade, please press the
'FLASH' button. The proceedure will take a few minutes to complete It is important that you do not interrupt the
upgrade once commenced!
DATA BEFORE PROCEEDING
FLASH
 1
Exit

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 repacement 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.

Help Canoel communica dem Settin	nk Save tion Gener 193 Dial Phetix	eral					Preference
Modern	Name	Sahur	Davine Name	Int Command	Dout	Echo	
Hodelii	nalie	status	Device name	and contraine	POIC	DOIN	
01	JetStream External		COM2 STANDARD 2400 BPS MODEM #2	AT%e0%c0UN0L3+ms=vv92			
02	Modern 2 Name		COM2 STANDARD 2400 BPS MODEM #2				
03	Modern 3 Name						
04	Modem 4 Name						
05	modem 5 Name						
06	Plocem 6 Name						
0/	Modem / Name						
00	Hodem o Name						
municati Deskt	on Settings Direct Link Port op RFID Reader Port	Not Filted Not Filted COM1 COM2	v Refresh	Log Auto Rehieve Log Auto Rehieve: Disabled			
		COM2 COM4 COM8					
		COMS					

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.

ack. Carcel Sava	Print Add Copy Delete Droups Panel	Detai
Name Solution	Account No: 653 Cust	omer Gioupz 🛛 Milai n 💌
Panel	Contact History Notes	Resources Petipherals
Panel	Solution 6000	Default Method Direct Connect (via COM Port)
Revision	22311 B	Modem Speed 2400
Installed Panels	1	RAS Security PIN: 12345678
Site Name	MyAlem	Bypass Connect
Panel Phone	208	M4CAddvett: 00-04-A3-75-A6-9E Auto Detect
GSM Backup No		Installer IP Port 07701
Panel Time Zone	(GMT+10:00) Hobert	Public IP: 220.233.211.182
CU Capable	ND	Private IP: 192.168.016.077 Update
		Hint Press F1 for more into on TCP/IP

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.



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.

<image>

The CM910B is supplied with a 5 metre USB cable making

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.

This page left intentionally blank

This page left intentionally blank

Bosch Security Systems Level 2, 21 Solent Circuit Baulkham Hills, NSW 2153 Australia Phone: +61(2) 9842 4743 Facsimile: +61(2) 8850 2230

© 2015 Bosch Security Systems CM910BIRG

Issue FTR1.0

