Firmware Update Tutorial

The ProTalk Link Firmware Update Tutorial will walk you through the steps needed to update your Link system to the latest firmware revision. Before you begin, make sure that the latest ProTalk Link Database Editor (programming software) has been installed on your PC (<u>http://barnettprotalk.com/Support/Resource-Center.php#software</u>). The latest .upg files for each of the modules in the system need be downloaded from our website as well (<u>http://barnettprotalk.com/Support/Resource-Center.php#firmware</u>). Updating the firmware will not affect the configuration. *If a module has 1.xx series firmware, the unit should be sent in for an update.*

Remove power from the Link, connect the program cable (USB/DB9) and open the programming software:

😑 ProTalk LINK Databa	ise Edit	or -					• 🛛 🗕 🗆 🔀
Eile Hardware Operation	⊆onneo	t ∐e	elp				
🛎 🖬 📓 📲 🔌	0	<u>ר</u>	4		Quick setup	check list. Press START to begin.	▼ 🗲 START
Add / Remove	Mode	ule Pro idule S Syste	operties: B1285-M1 (Settings Site Inform en Alarms 1. Vocabulary memo 2. Database memory 3. User voice memo 4. Clock memory err 5. Expander failure	address=0) ation yy error yy error or			
	Modu	ule I/C)				
	Ref	1/0	Name	Туре	Group	Description	<u>^</u>
	0.1	1	Battery Voltage	Voltage Input	•	disabled	
	0.2	2	Power Failure	Digital Input	•	disabled	
	0-3	3	System Alarm	Internal Status	•	Internally generated	
	0-4	4	Module Major	Internal Status	•	Internally generated	
	0.5	5	Module Minor	Internal Status	•	Internally generated	
	0.6	1	Auto Relay 1	Auto Relay	•	New Alarm Exists in Group 1	
	0.7	2	Auto Relay 2	Auto Relay	•	Error Condition Exists	
	0-8		Active Shift	Shift Status	•	Current Shift	
	0-9		Group 1 Status	Group Status	•	Coded Status	
	0.10		Group 2 Status	Group Status		Coded Status	
	0.11		Group 3 Status	Group Status	•	Coded Status	
	0.12		Group 4 Status	Group Status		Coded Status	~

Under the 'File' heading, select 'Update Module Firmware:'

😑 Firmware Updater		e ?	2 🔀
Module Availability	Selected Module Information	Firmware File Information	>>> -
Status Walting Power down unit, Select serial port and c	ick Connect Hardware Button	Help Close Start System	



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Select the appropriate COM port in the drop-down-box (the port will already be selected if a USB cable is used) and press 'Connect.' Apply power to the M1 and the following window appears:

irmware Updater				⊡ ?
Module Availability Addr: 00 B1285M1 Addr: 00 B1285M1 Addr: 00 B1285M1 Addr: 03 Not Used Addr: 05 Not Used Addr: 05 Not Used Addr: 05 Not Used Addr: 06 Not Used Addr: 07 Not Used Addr: 10 Not Used Addr: 13 Not Used Addr: 13 Not Used Addr: 15 Not Used Addr: 15 Not Used Addr: 15 Not Used Addr: 16 Not Used Addr: 16 Not Used Addr: 16 Not Used Addr: 17 Not Used Addr: 10 Not Used	Main Telco Analog in Firmware Qpen Send	Selected Module Information Type: B1285M1 Serial No: 1310020 Hardware Ver: 01.40 Firmware Ver: 02.20 Available Options: none Activated Options: none	Firmware File Information	
itatus			<u>H</u>	elp
Firmware versions rece	eived.		C	ose
			Start	Sustem

The M1 unit will automatically be selected by default and needs to be updated before the others. Press 'Open' and select the M1 .upg file from the location it was saved to earlier:

Load Firmware	e File		? 🔀
Look jn:	: 🞯 Desktop 💌 🗲	• 🖬 📩	
My Recent Documents Desktop My Documents My Computer	My Documents My Computer My Network Places Imported B1294_prelim.PrjPcb Modbus Simulators SiLabs Webinars Xilinx B1285M1 V2.24.UPG Type: UPG File Date Modified: 10/22/2012 11:57 AM Size: 126 KB		
My Network Places	File name: B1285M1 V2.24.UPG Files of type: Firmware Files	• _	<u>O</u> pen Cancel

Press 'Send' and the transfer will begin:



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Module Availability	Selected Module Information	Firmware File Information
Addr. 00 B1285M1 Main Addr. 01 B1285T1 Telco Addr. 03 Not Used Analog in Addr. 04 Not Used Addr. 05 Addr. 05 Not Used Addr. 04 Addr. 05 Not Used Addr. 04 Addr. 08 Not Used Addr. 04 Addr. 10 Not Used Addr. 10 Addr. 10 Not Used Addr. 13 Addr. 13 Not Used Addr. 14 Addr. 15 Not Used Addr. 15	Type: B1285M1 Serial No: 1310020 Hardware Ver: 01.40 Firmware Ver: 02.20 Available Options: none Activated Options: none	Type: B1285M1 Firmware Ver: 02.24 H/W Compatible: Ver 01.xx to 01.xx Available Options: none
Serial Port COM 10 (USB) Connected Send	No options available	
itatus		<u>H</u> elp
Sending packet number 15 of 115.		Close
Upgrading the module in position U.		Start System

Once the file transfer has completed, a message stating that the upgrade was successful will appear in the lower half of the window:

Firmware File Loaded: C:\Docum	ents and Settings\Sasha\Desktop\	B1285M1 V2.24.UPG 📑 ? 2
Module Availability Addr: 01 B1285N1 Main Addr: 01 B1285N1 Telco Addr: 02 B1285N1 Analog in Addr: 03 Not Used Addr: 04 Not Used Addr: 05 Not Used Addr: 05 Not Used Addr: 09 Not Used Addr: 09 Not Used Addr: 10 Not Used Addr: 10 Not Used Addr: 10 Not Used Addr: 10 Not Used Addr: 15 Not Used Addr: 15 Not Used Connected Firmware Send	Selected Module Information Type: B1265M1 Serial No: 1310020 Hardware Ver: 01.40 Firmware Ver: 02.24 Available Options: none Activated Options: none Activated Options No options available	Firmware File Information Type: B1285M1 Firmware Ver: 02.24 H.W Compatible: Ver 01.xx to 01.xx Available Options: none
Status Upgrade was successful. Upgrade process completed.		Help Close Start System

If another module needs to be updated, select it in the upper left-hand-side of the window and repeat the process, selecting the appropriate .upg file for the module(s). Once the modules have been updated, press 'Start



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System' in the lower right-hand-side of the window to reset the system (or cycle the power). The update is complete.

If the M1 firmware is older than 2.20, the vocabulary (canned voices) needs to be updated. Press the 'Vocabulary' button and then 'Send.' Click on 'Yes' for the following two windows that pop-up. The software will automatically default to the directory with the proper file. Select voc85.bin and the transfer will begin. Updating the vocabulary will not affect the user recorded voices.



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