## TWN4 CONFIG PROGRAMMER QUICK START GUIDE







#### INTRODUCTION

This guide provides an overview of TWN4 CONFIG Programmer.

The contents of the package are as follows:

- + TWN4 CONFIG Programmer
- + TWN4 CONFIG Cards (10 pcs)
- + USB memory stick
- + Snap-in holder



TWN4 CONFIG Programmer Firmware V1.00

### REQUIREMENTS

TWN4 CONFIG Cards can only be used with TWN4 readers that are compatible with Firmware V3.04 or later. Please refer to the TWN4 System Overview located in Docs folder of the TWN4 Developer Pack 3.04.



TWN4 reader compatible with TWN4 Developer Pack 3.04



# HOW TO PROGRAM TWN4 READER TO ACCEPT CONFIGURATION CARDS

Readers with firmware versions earlier than 3.04 are not able to understand TWN4 CONFIG Cards and must be upgraded.

Connect a compatible RFID reader to the host (i.e. PC). Open AppBlaster and click "Program Firmware Image". Select the firmware image

TWN4\_CKx304\_STD201\_Core\_Keyboard\_Standard\_Accept\_Config\_Cards.bix and select "Open".



Next click "Program Image" to load the firmware onto the reader.

V Select a Firmware Image or an App			🥊 Program Firmware Image — 🗆	$\times$
TWN4DevPack304 > Firmware > Core Module, Desktop, OEM PCB v 2	5 Search Core Mo	dule, Desktop 🔎	Settings	
		🗄 • 🔲 🌘	Step 1	
Name	Date modified	Туре		
TWN4_CCx304_LXT107_Core_Legic_Transparent.bix	30.09.2016 12:27	BIX File	Firmware Image: C:\Users\georgiev\Desktop\Packs\TWN4DevPa	
TWN4_CCx304_PRS104_Core_CDC_Simple_Protocol.bix	30.09.2016 12:27	BIX File		
TWN4_CCx304_STD201_Core_CDC_Standard.bix	30.09.2016 12:26	BIX File	Select Image	
TWN4_CKx304_DMP106_Keyboard_Dump.bix	30.09.2016 12:34	BIX File		
TWN4_CKx304_STD201_Core_Keyboard_Standard.bix	30.09.2016 12:24	BIX File		
TWN4_CKx304_STDC201_Core_Keyboard_Standard_Accept_Config_Cards.bio	30.09.2016 12:24	BIX File	Step 2	
TWN4_CKx304_TRC214_Tracer.bix	30.09.2016 15:17	BIX File		
TWN4_CPx300_S1SC124_CCID_1Slot_Standard.bix	12.05.2016 17:22	BIX File	Program Image	
TWN4C_CHx304_CFG100_Config_Card_Programmer.bix	30.09.2016 12:42	BIX File		
			Messages	
			Installed firmware: TWN4 Core, V3.04, Keyboard Check compatibility: OK Programming Firmware: OK Programming Pop: OK	^
<			Restarting: OK	
File name: TWN4 CKx304 STDC201 Core Keyboard Standard Accept Config Card	s.bix Apps, Firmware	: (*.t4a, *.app, *.l ~	Done.	
	<u>O</u> pen	Cancel	<	<u> </u>



#### HOW TO CREATE TWN4 CONFIG CARDS

AppBlaster is used to create TWN4 CONFIG Cards. When a TWN4 CONFIG Programmer is connected to a PC, the "Create Config Card" and "Read Card Info" buttons will appear.

Note: Please refer to the video on the thumb drive from the TWN4 CONFIG Programmer package for a quick startup guide on configuring TWN4 readers.

Configurable Project - C ×   Save Save Program Image Create Config Card Read Card Info Settings				
🖬 Save 🥳 Create Image 📥 Program Image 🔶 Create Config Card ? Read Card Info 🌽 Settings	Configurable Project	-		$\times$
	Save 😻 Create Image 📥 Program Image 🕂 Create Config Card ? Read Card Info	📌 Setting	gs	

Center a blank or previously used TWN4 CONFIG Card on the TWN4 CONFIG Programmer and click "Create Config Card".

Configurable Project	-		×
Save 🖉 Create Image 📥 Program Image F Create Config Card ? Read Card Info	🖋 Settin	gs	

The firmware image is created and the window "Performing Action" appears. The creation of the TWN4 CONFIG Card will time out and be cancelled if it has not been placed on the programmer before the status bar disappears.

Performing Action	×	Messages	
Please present a configuration card to TWN4.		Card information 	^
Cancel		Done.	<b>&gt;</b>

If the presented TWN4 CONFIG Card was previously configured a second window "Messages" will appear to confirm the user would like to overwrite it. Click "OK" to proceed. The messages window will display card information and "Done" once the TWN4 CONFIG Card has been created.

#### Note: The card reader can be enabled or disabled to the future use of TWN4 CONFIG Cards.

Before creating a TWN4 CONFIG Card, click on "Behavior/Signaling" in the window "Action Items" and select or deselect the check box next to "Accept CONFIG Cards" as appropriate. This setting will be stored in the TWN4 CONFIG Card and applied to any TWN4 reader during programming.



Action Items Transponder Types - Type of USB ("Template") - Prefx/Skfix - Behavor/Signaling		Behavior/Signalling	Accept Configurat	on Cards	
Options Version Information		Event Startup:	Red LED Green LED	Beeper Beep Low/High	Volume
	Y	Card Found:	Blink V Off V	Beep High	✓ 100% ✓
		Card Timeout: Timeout Value:	Off V On V 2 Seconds V	No Beep	<ul><li>✓ 100% ✓</li></ul>
					Standard

#### HOW TO READ TWN4 CONFIG CARDS

Follow the steps below to read a TWN4 CONFIG Card:

Open AppBlaster and click on Configurable Project. Connect the TWN4 CONFIG Programmer to the PC. The "Create Config Card" and "Read Card Info" buttons will appear and the messages window will display "TWN4 Card Programmer connected".

	Action items	Transponder Types	
Program Firmware Image	- Type of USB ("Resolute") - Type of USB ("Resolute") - PerluCsGirk - Behavior/Synahing - Options - Vension Information	Add Transporder Type Prequency (LF (2354): 754 3cHz) HF (13554Hz)	
Configurable Project		Active Transponder Types	Add
	Messages		Remove
Source Code	Searching for available ter File "TMN4_Ch2004_STD201_C File "TMN4_Ch2004_STD201_C File "TMN4_Ch2004_STD201_M File "TMN4_MC204_STD201_M File "TMN4_MC204_STD201_M	mplates: org_CDC_Standard.abp": OK org_Neybeaud_Btandard.abp": OK ini_CDC_Standard.abp": OK ini_LNeyboard_Standard.abp": OK ano_CDC_Standard.abp": OK	
Froject	TWN4 Card Programmer conne	cted.	



Place a TWN4 CONFIG Card on the TWN4 CONFIG Programmer and click "Read Card Info".

🔚 Save 🛛 🧬 Create Image 📥 Program Image 🕂 Create Config Card ? Read Card Info 🌽 Settings

A progress window will appear and once a TWN4 CONFIG Card is presented, card information will be displayed in the "Messages" window.

Performing Action	Х	Messages	
Please present a configuration card to TWN4.		Card information 	^
Cancel		Done.	*

Another way to read TWN4 CONFIG Cards is using TechTracer Firmware (card analyzer) from DevPack3.04.

Sample TechTracer output: ISO14443A/MIFARE DESFire EV1 | EEPROM 8 kB | UID Length 56 Bits | UID HEX 041261AAA14380 ProgID 310054000E51353337353036 Source TWN4\_CKx304\_HPCC100\_HID\_Prox\_26\_bit\_Config\_Card.bix Size 1007 Date 2016-10-20 Time 10:48 AM

#### HOW TO USE TWN4 CONFIG CARDS

Steps to configure a TWN4 reader:

- 1. Ensure the TWN4 reader is powered on and in ready state (green LED is on).
- 2. Center the TWN4 CONFIG Card over the TWN4 card reader.
- 3. Remove the TWN4 CONFIG Card when the reader beeps high-low-high.
- 4. The TWN4 card reader will reboot and once the green LED is visible again the reader is ready for use.
- 5. Test the TWN4 reader with a sample card.

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