・ファームウェアの焼き方

※注意!USBケーブルから5Vを供給するようにしてありますから、BTモジュールが載った基板単体で USBケーブルを接続してください!

動作にはファームを書き込む必要があります。以下のページより、ツールをダウンロードしてください https://www.microchip.com/en-us/product/BM83

Embedded Software->IS2083 Turnkey Software and Tools よりダウンロードしてください。 <u>https://ww1.microchip.com/downloads/en/DeviceDoc/IS2083Turnkey1.2.4.zip</u> ダウンロードしたアーカイブを解凍し、日本語パス名を含まない場所にコピーしてください。

¥IS2083 Turnkey_1.2.4¥Tools¥Config Tool¥is208x_config_gui_tool v1.3.23.exe を起動します。このツールを使って、設定を行っていきます。 橙は設定項目、赤は項目変更後の次画面への遷移指示です。

┌ Version & D	evice —			
IC Package:		S208x	•	-
Tool Versior	n: 🔽	1.3.23		
Project:	Ī.	ISPKV2 SPP		a
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Inction Enable and GP Charge OK Led Ind. AUX-IN Led Ind.	I AVRCI I A I A IO Assignme 0x2 0x2 0x1	VRCP Controller VRCP Target nt 1: GPIO_NULL 1: GPIO_NULL A: GPIO_P32		
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wer Switch Setting				
Power Switch Type	Power ON Directly MFB Power ON/OFF Power ON by UART Cmd	Help		
				スライダーを使っ
Setup CODEC Setup iAP2 Setup BLE Setup Setup1 Sys. Setup2 Sys. Setup3 LED Setup1	up MSPK Setup User Define LED Setup2 LED Setup3 Ton	DSP Featu e Setup Butt	re Setup ton Setup	スクロールして次
Device Name	MCHP BM83	Help	1	設定項目を表示し
	(Current: 9 Char, Total: 64 Char)			ください
仔きなBTの接続名に変更				
Aisc Option				
Enable Inquiry Scan In Standby		✓ Help		
Enable Power On Enter Pairing				
Suspend Stream When SCO Estabblished	Disable			
BT Class of Device	0x28:HiFi Audio Device	•		
Report Battery Status to Smart Phone	Enable	•		
Link Application	Single-Link	-		
Always Answer Incoming Call	Disable	•		
	Dischlo	_!		
PMU Setup CODEC Setup iAP2 Setup BLE Se Sys. Setup1 Sys. Setup2 Sys. Setup3 LED Setup7	tup MSPK Setup User Define	DSP Feature	Setup	
Auto Answer Incoming Call When Link Back	Disable		Setup	
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Auto Answer Incoming Call When Link Back Shut Down Power in Off State Enter Pairing When Power On Link Back Fail Only Accept Paired Device	Disable Disable Disable		Setup	
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Connection Setting	IE at a		1	設定項目を表示して
Power On Link Back Setting	Enable	Help		ください
Seach Paired Device Pattern Setting	All Devices			
Power On Link Back Profile(s) Setting	Last Device	•		
	Fac			
U Setup CODEC Setup iAP2 Setup	BLE Setup MSPK Setup User	Define DSP Featu 3 Tone Setup Butt	re Setup	
		-1		接結性が更いと思っ
RF Tx Power Setting				
Inquiry TX Power Level.	1	- Help		
BT Connected TX Power Level.	1	•		見ながら、レベルを
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Specific Transparent Service Setting	Setup	BLE Setup MSPK Setup User De	fine DSP F	eature Setup
			Help	
Transparent Service UUID	0x	49535343FE7D4AE58FA99FAFD205E455		
		(16 Bytes)		
Transparent TX UUID	0x	495353431E4D4BD9BA6123C647249616		
		(16 Bytes)		
Transparent RX UUID	0x	49535343884143F4A8D4ECBE34729BB3		
		(16 Bytes)		
Authentication Request		Disable		
BLE Application Setting		Disable	Univ	
BLE Application Setting BLE Application in Embedded Mode		Disable 💌	Help	
BLE Application Setting BLE Application in Embedded Mode		Disable	Help	
BLE Application Setting BLE Application in Embedded Mode RF Tx Power Setting		Disable _	Help	
BLE Application Setting BLE Application in Embedded Mode RF Tx Power Setting Connected TX Power Level.		Disable	Help	
BLE Application Setting BLE Application in Embedded Mode RF Tx Power Setting Connected TX Power Level. Advertising TX Power Level.		Disable	Help	
BLE Application Setting BLE Application in Embedded Mode RF Tx Power Setting Connected TX Power Level. Advertising TX Power Level.		Disable	Help	
BLE Application Setting BLE Application in Embedded Mode RF Tx Power Setting Connected TX Power Level. Advertising TX Power Level. GFPS Setting		Disable	Help	
BLE Application Setting BLE Application in Embedded Mode RF Tx Power Setting Connected TX Power Level. Advertising TX Power Level. GFPS Setting		Disable	Help	

IS208x_DSP_GUI_Tool

BLE Settings Dynamic Tuning Commands Help

OUT Status Unknown	DSP Status: Unknown	BLE Status: Not connected
Main Function Voice Func	tion Audio Function I2S/PCM	
	IS208x DSP GUI Tool Version 6	.1
	Міспоснір	
	MICROCHIP	

IS208x_DSP_GUI_Tool BLE Settings Dynamic Tuning Commands Help	
DUT Status Unknown DSP Status: Unknown	BLE Status: Not connected
Main Function Voice Function Audio Function I2S/PCM	
MASTER MODE	SLAVE MODE
CODEC DSP CODE	EC DSP SCLK RFS DT DR GND SLAVE
I Z4Bit To 16Bit Truncate I MCLK Note: Enable MCLK if required by MCLK	help
I2S Mode Master mode 🗸	オーバーサンプリングDACの場合
Data Bitwidth 24bit 💽	MCLKを有効にする必要があります。
Loopback ADC Embedded ADC	他のバージョンでは、この設定を省
DAC Selection External DAC	
RFS Setting RFS low level -> Left channel	
Save	Reset
Config_GUI_Iool	×
IC Package:	
Tool Version: V1.3.23	
Project: MSPKv2_SPP	
Load Edit	好きな場所にコンフィグを保存し ます。
Save Exit	名前は「config.hex」などとしてく ださい

¥IS2083 Turnkey_1.2.4¥Tools¥isupdate¥isupdate.exe を起動します。

この	ツールを使って	ファームの書き込み、	先ほど作成したコンフィ	・グの書き込みをします
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📕 isUpdate Tool v3.14		-		
Access Port port USB HID v image num Connect baudrate 921600 v	Memory Type memory flash subtype Serial Flas	Code Info	rmation/Version	
Hash Update/Dump Images		Browse	Update	
			Rehex	
Images	bank num	Browse	Dump	
Flash/EEPRom/MCU/AHB Access			Clear	
Address Length(Hex) Data(Hex)		Read	Write	
		Browse	Write Table	
Images	Dump Size 4K V	Dump Table		
「¥IS2083 Turnkey_1.2.4¥Software¥IS2083 Image¥MSPK2 ファームを順番に書き込みします。 ・MSPKv2_1.03.0406_SPP.hex ・MSPK2.0_DSP_FW_V1.04.0411.HEX ・IS208x UI 1.3.23 Demo Package Embedded Mode SI	2v1.3.4¥SPP¥Embedo PP.hex	ded Mode]	にある、以下の)
「Browse」ボタン押下し、ファームを選択。「Upda を繰り返します。)	te」ボタンで書き返	込みです。	(1つづつ、こ	の手順
このとき「Would you like to disable current procedure?」 続が切断されますので再度「connect」ボタンを押下	と表示されたら し、やりなおして	「Yes」を選覧 ください。	択してください	、接
おなじ手順で、さきほど保存しておいたconfig.hexを	書き込みます			
すべて書き込んだら完了です				
下記動画も参考になります				
https://www.youtube.com/watch?v=SPlbVVXS5hs				