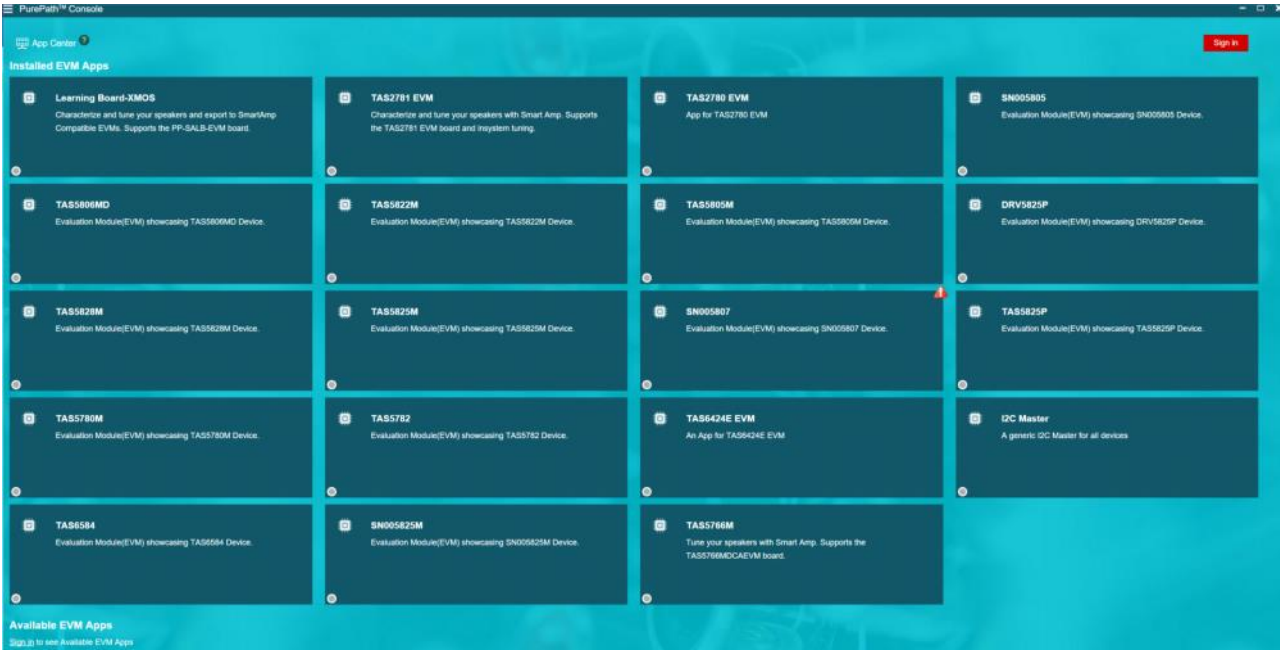


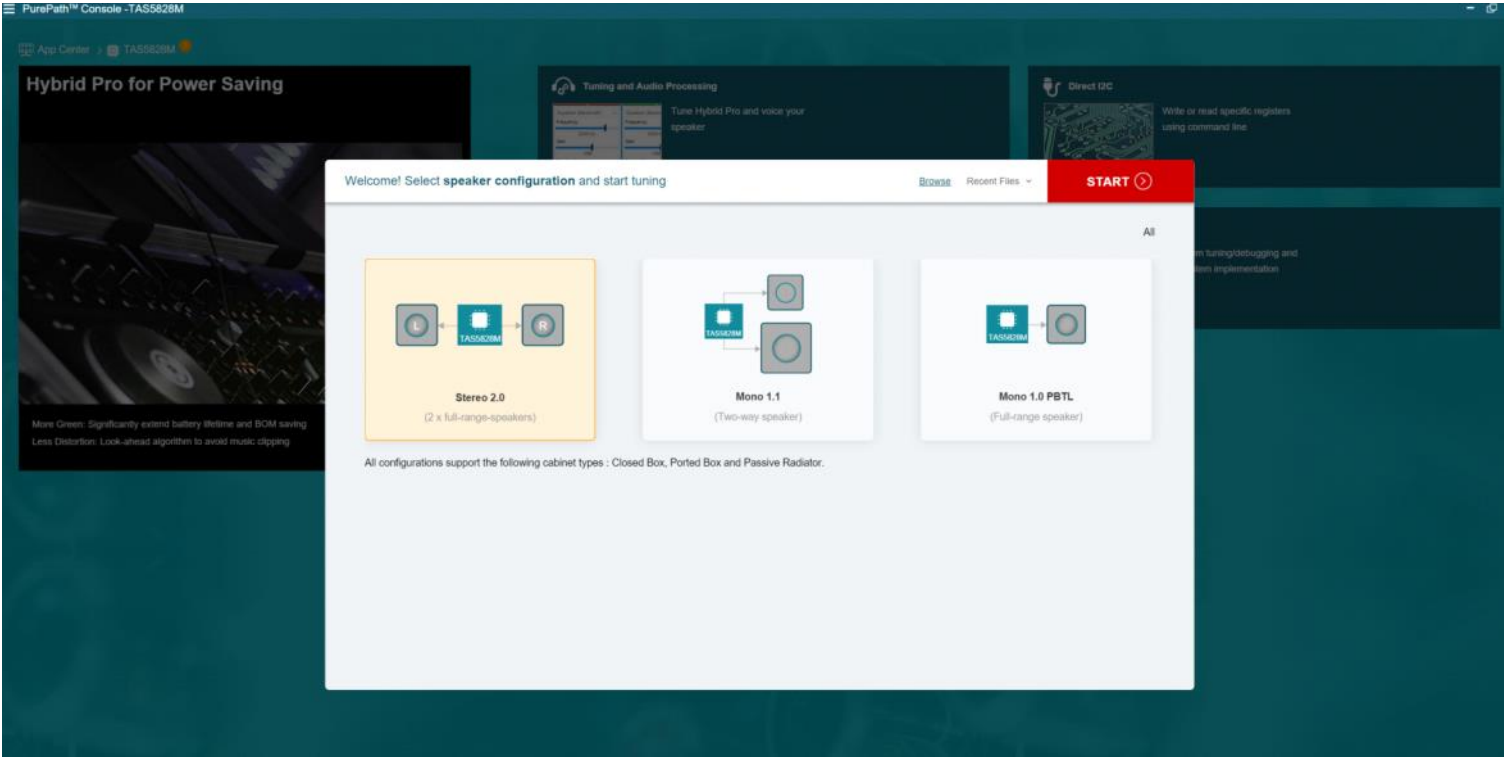
How to generate config script from ppc3

2023年7月3日 10:11

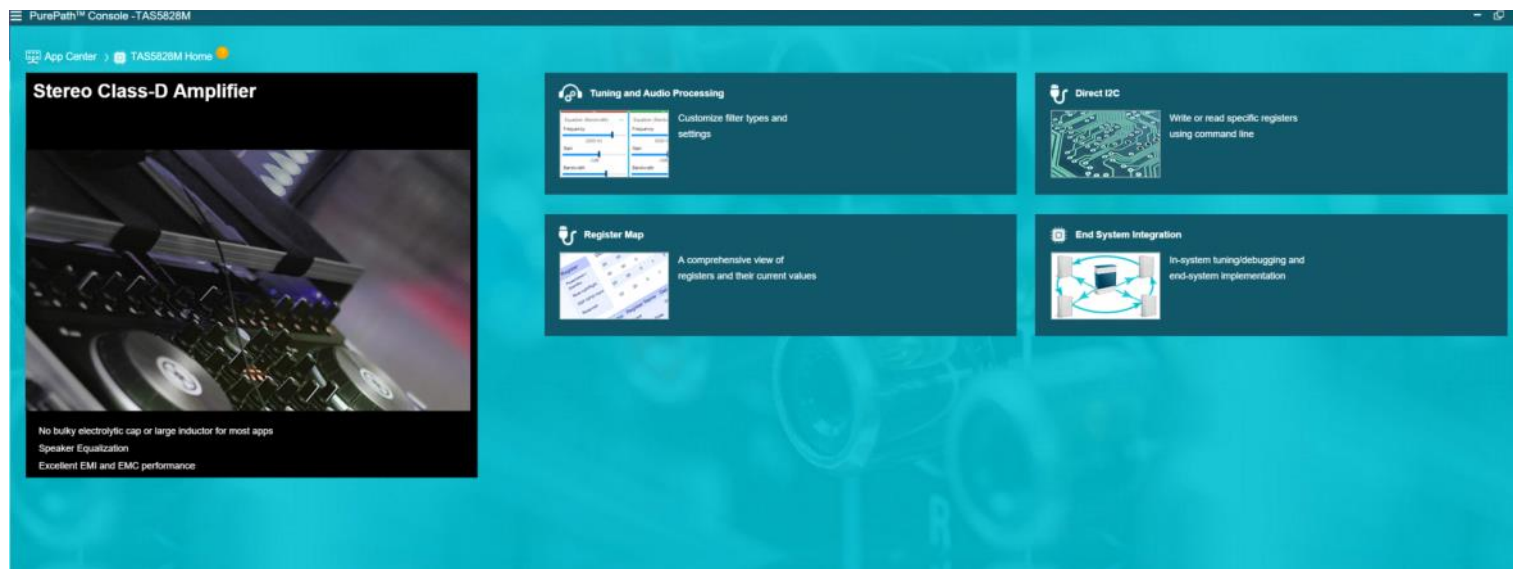
Step 1 choose the module, for example tas5828



Step2 : choose speaker configuration. For example Mono 1.0 PBTL



Step3: choose tuning and audio processing.



Step4: choose audio mode. For example: Base/Pro 1.0 48k

PurePath™ Console - TAS5828M			
App Center > TAS5828M Home > Audio processing			
Select Audio Mode			
Feature	Base/Pro (1.0 48k)	Base/Pro (1.0 96k)	Base/Pro Hybrid (1.0 96k)
	Select	Select	Select
Maximum Internal Sample Rate	48k	96k	96k
SRC and Auto-detect	✓	✓	✓
Supported Input Sample Rates: 16k, 32k, 44.1k, 48k, 88.2k, 96k	✓	✓	✓
Biquads for EQ filtering (Individual left/right)	12	12	12
Input Mixer	✓	✓	✓
Click & Pop Free Volume	✓	✓	✓
Dynamic Biquad	2nd Order	✗	✗
DRC	3 Band 4th Order Crossover	2 Band 4th Order Crossover	2 Band 4th Order Crossover
Automatic Gain Limiter	✓	✓	✓
Output Clipper	✓	✓	✓
PVDD Tracking / Thermal Foldback	✓	✗	✗
Hybrid PWM Mode	✗	✗	✓

Customer can config the corresponding model like EQ, Volume, AGC

App Center > TAS5828M Home > Audio processing (BasePro (1.0 48k))

Snapshots Audio Player

Sample Rate Conversion

Base Sampling Rate is the internal sampling rate of the device and used to compute the coefficients.

Base Sampling Rate: 48 KHz

Input Sampling Rate: Auto Detected

Input Mixer

Basic Advanced

8+Ry2 Mono Channel

Equalizer

OFF

Cascaded Biquadratic filters for audio equalization

Hybrid-Pro (Class-H)

OFF

Hybrid Pro is a proprietary solution to improve the efficiency and extend the life of battery-powered speakers without audio clipping distortion.

More Green: Hybrid-Pro utilizes Hybrid modulation and envelope tracking controlled by the external amplifier DSP to achieve maximum power savings.

Less Distortion: With Hybrid-Pro, the TAS5828M modulates the supply voltage to create dynamic supply rails and supports look-ahead to avoid clipping.

DBE/DDE/DEQ

OFF

Programmable Dynamic Equalizer.

☐ Dynamic Bass Enhancement

☐ Dynamic Dialogue Enhancement

☒ Dynamic EQ (Advanced)

DRC

OFF

Three Band Three Curve Dynamic range compression

Post EQ

OFF

Post Cascaded Biquadratic filters for audio equalization

PVDD AGL/OTFB

OFF

Automatic Gain Limiter based on power stage supply voltage and over temperature foldback

Clipper

OFF

Output Crossbar

Basic Advanced

Mono Left Amp

Mono Right Amp

Mono Left I2S

Mono Right I2S

Simple Register Tuning

State Control: Play

PWM Mode: BD Mode

☐ Mute

Reset

Step5: after configuration, go back to home and choose End System Integration

App Center > TAS5828M Home

PurePath™ Console - TAS5828M

Hybrid Pro for Power Saving

More Green: Significantly extend battery lifetime and BOM saving

Less Distortion: Look-ahead algorithm to avoid music clipping

Tuning and Audio Processing

Tune Hybrid Pro and voice your speaker

Direct I2C

Write or read specific registers using command line

Register Map

A comprehensive view of registers and their current values

End System Integration

In-system tuning/debugging and end-system implementation

Press Next.

PurePath™ Console - TAS5828M

App Center TAS5828M Home End System Integration

What would you like to do?

☒ Dump Current State into a Header File
Choose this option to download the code to a header/cfg file. This generated file will contain the register addresses and the corresponding values that have to be written to the device during boot up.

☐ In-System Debugging
Choose this option to read or write register values in the end system. Only Register Map and Direct I2C screens will be available.

☐ In-System Tuning
Choose this option to make fine adjustments in the end system.

Next

Choose the format which customer request.

For example: .h file.

Press dump to output window, the code can be seen at the right window.

PurePath™ Console - TAS5828M

App Center TAS5828M Home End System Integration Dump to Header File

Summary

Choose the settings with which to create header/cfg file.

Base Sample Rate: 48 KHz
Selected Sample Rate: Auto Detected

Selected Audio Mode: BasePro (1.0 48k)
Destination: Output Window

End System I2C Address: 0x00
Format: .h

Burst: 1
Dump Mode: Current State

☐ Include Comments

Dump to Output Window

Output

Finish

Base Sample Rate : 48 KHz

Selected Sample Rate: Auto-Detected

Selected Audio Mode: Base Pro (1.0 48k)

Destination Output Window

End System I2C Address : 0xC0

Format:

Burst: 1

Dump Mode: Current State

☐ Include Comments

Dump to Output Window

Output

```

default:
    __crt_unassigned_char[16*512] = 0;

}

__crt_reg_registers[] = {
    {0x00, 0x00},
    {0x77, 0x00},
    {0x04, 0x01},
    {0x23, 0x03},
    {0x48, 0x09},
    {0x03, 0x02},
    {0x9c, 0x06},
    {0x71, 0x04},
    {0x00, 0x0a},
    {0x58, 0x08},
    {0x59, 0x00},
    {0x5a, 0x00},
    {0x5b, 0x00},
    {0x00, 0x0c},
    {0x14, 0x00},
    {0x15, 0x00},
    {0x16, 0x00},
    {0x17, 0x00},
    {0x00, 0x7f},
    {0x21, 0x0f},
    {0x22, 0x0f},
    {0x23, 0x0f},
    {0x00, 0x0e},
    {0x5c, 0x00},
    {0x5d, 0x00},
    {0x5e, 0x00},
    {0x5f, 0x01},
    {0x61, 0x00},
    {0x62, 0x00},

```

Finish