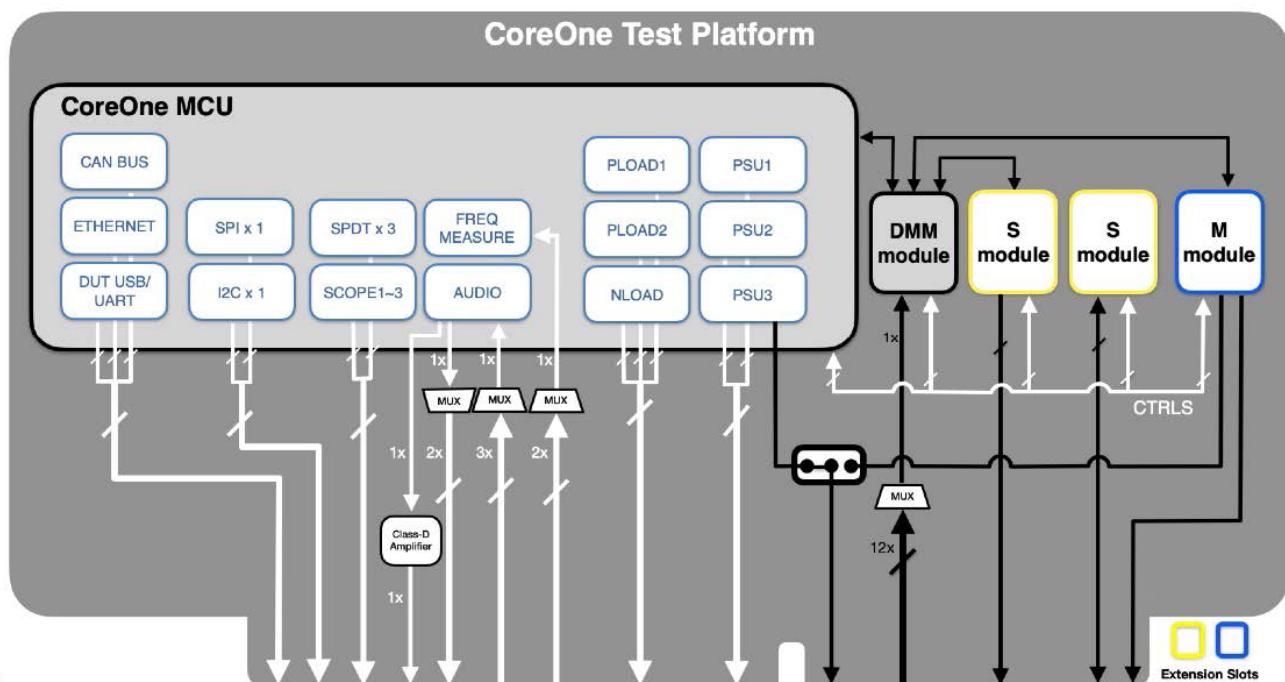


## Features

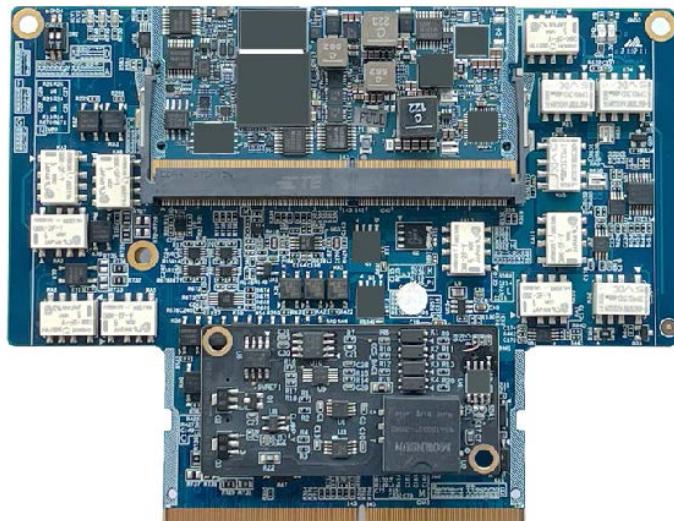
- Flexible control interface: USB & Ethernet
- Multiple interface option to DUT: (CAN, USB, I2C,SPI, etc.)
- Precision voltage and current measurement
- Audio analyzer and generator to perform audio test
- Multi-channel battery emulator for charging test
- Multi-channel E-load for discharging test



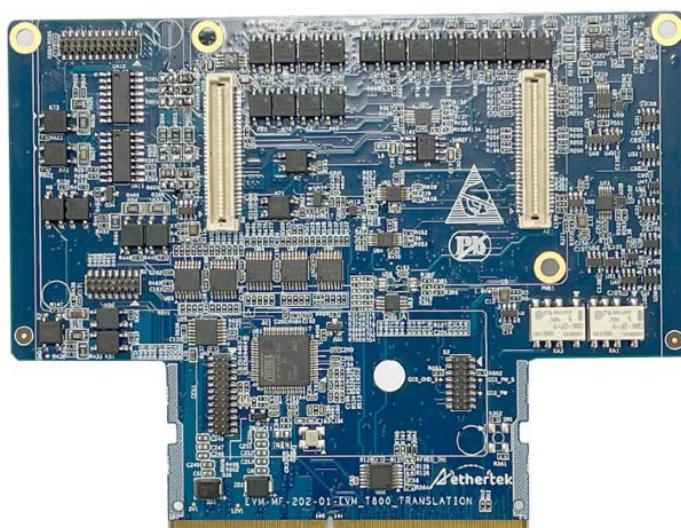
## Functional Block Diagram



## T800 Platform



Front View  
(Standard Package)



Rear View

## Electrical Specifications

DMM specifications		Specifications
Voltage DC	Voltage	± 24V
	Accuracy	± (0.1%+1mV)
	Resolution	24bits
Channel	12	
Frequency measurement		Specifications
Waveforms	Sine-wave, sine+DC offset, square-wave	
Input Level Range	0 V to 1.8 V	
Measurement Frequency Range (Fs)	DC to 25MHz	
Measurement Accuracy	± 25ppm	
Audio Generator		Specifications
Channel count	2 (Single end) or 1 (Differential) with 1 (Class-D)	
General Output	Waveforms	Sine-wave
	Frequency Range	0.1 Hz to 10 kHz
	Frequency Accuracy	100Hz~500Hz: ≤ ±6% 500Hz~1kHz: ≤ ±1% 1kHz~10kHz: ≤ ±0.5%
	Amplitude Range	≤ 2.0 Vpp
	Amplitude Accuracy, 1 kHz	±0.5%
Class D Output	Residual THD+N	≤ -75 dB, 20KHz BW, 1K tone, 2 Vpp
	Output Voltage Level	±3V
	Output Driving Current	0.375A
	Output Frequency Range	20Hz ~ 10Khz
	Driving Capability	Up to 8 ohm/1w speaker load
Audio Analyzer		Specifications
Channel count	3 (Differential)	
Input Voltage	Vac	≤ 3 Vpp
Input Frequency Range	20 Hz to 10 kHz	
Level (Amplitude) Measurement	± 0.5%	
THD+N Measurement	≤ -80 dB, 20KHz BW, 1K tone, 3 Vpp	

## Electrical Specifications

Hardware Interface		Specifications
Interface	Ethernet	1x
	USB HS	1x
	UART	1x
	CAN	1x
	I2C	1x
Digitizer (Scope)		Specifications
Waveform capture	Voltage Range	0~5V
	Trigger mode	Pre-trigger, rise/fall trigger, continuous acquisition
	Sample rate	2MSPS* (Simultaneous)
Electronic Load (E-Load)		Specifications
Positive E-Load 1	Current sink capability	0.5V to 20V 100mA to 6000mA
	Readback accuracy	FI: $\pm(0.1\%+1\text{mA})$ MI: $\pm(0.1\%+1\text{mA})$ MV: $\pm(0.3\%+1\text{mV})$
Positive E-Load 2	Current sink capability	0.5V to 20V 1mA to 1200mA
	Readback accuracy	FI: $\pm(0.1\%+0.1\text{mA})$ MI: $\pm(0.1\%+0.1\text{mA})$ MV: $\pm(0.3\%+1\text{mV})$
Negative E-Load	Current sink capability	-0.5V to -20V 100mA to 3000mA
	Readback accuracy	FI: $\pm(0.1\%+1\text{mA})$ MI: $\pm(0.1\%+1\text{mA})$ MV: $\pm(0.3\%+1\text{mV})$

## Power Specifications

Power Specifications		PSU1	PSU2	PSU3
Power Type	Source/Sink	Source	Source	Source/Sink
		1.5 to 20 V	1.5 to 4.7 V	1.5 to 4.7 V
DC output rating		0 to 3A (<12 V) 0 to 2A (12V to 20V)	0 to 6A	0 to 6A
DC input rating		-	0 to 6A	0 to 6A
<b>Programming accuracy ± (% of output + offset)</b>				
Voltage			± (0.3%+1mV)	
<b>Readback accuracy ± (% of output + offset)</b>				
Voltage			± (0.3%+1mV)	
	< 6 A 3A for PSU1		± (0.5%+1mA)	
Current	< 80mA		± (0.5%+0.1mA)	
	< 80uA		± (0.5%+0.1uA)	
<b>Load transient recovery time</b>				
Time (@Max. current load)		< 250 uS	< 50 uS	< 70 uS
<b>Output ripple and noise (20 Hz to 20 MHz)</b>				
Normal mode voltage (@Max. current load)		< 35m Vpp	< 20m Vpp	< 35m Vpp
<b>Protection ± (% of output + offset)</b>				
Overcurrent protection (OCP)			± 1%	
Overvoltage protection (OVP)			± 1%	
<b>Activation time (average time for the output to start to drop after OVP or OCP condition occurs)</b>				
Overcurrent (OCP)			< 2 ms	
Overvoltage (OVP)			< 2 ms	
<b>Load regulation ± (% of output + offset)</b>				
Voltage (@Max. current load)			± (0.3%+1mV)	

## Power Specifications

Parameter		Min.	Typ.	Max.	Unit
DC Supply -1	Voltage	11	12	13	V
	Current	-	16	-	A
DC Supply -2	Voltage	4.6	5	5.5	V
	Current	-	2	-	A
DC Supply -3	Voltage	-13	-12	-11	V
	Current	-	2	-	A

## General Specifications

Parameter	Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		0	-	40	V
	Length	-	130	-	A
	Width	-	45	-	V
	Height	-	100	-	A