

ESMT

Elite Semiconductor Microelectronics Technology Inc.

晶豪科技股份有限公司

ESMT

Audio/Power Product BU

音訊/電源產品事業單位

www.esmt.com.tw

選型指南 – 2025.Q1

Selection Guide



公司簡介 Company Profile

About ESMT

Elite Semiconductor Microelectronics Technology Inc. ('ESMT'), a Taiwan-based memory IC design company. Business activities consist of R&D, manufacturing, marketing, and the provision of design services for a variety of memories and mixed signal products. We have initially defined ourselves as a provider of various memory ICs. In contrast to main memory, i.e., DRAM used for PCs, servers, and workstations, our DRAM products focus on specialty DRAM memories, which are used in sectors such as PC peripherals, IA products, consumer products, optical devices, and communication devices. We have been positioning ourselves to market a full range density (from 1Mb to 256Mb) and a wide variety of specialty DRAM products (including FPM, EDO, SDRAM, DDR, Mobile SD/DDR and etc.). Furthermore, in 2002 we entered the flash memory business. A number of NOR flash products, ranging from 2Mb to 32Mb with parallel and/or serial interface, are now available for mass production. To serve the rising market demand of System-in-Package(SiP) and Multi-Chip-Package (MCP), ESMT has successfully established the Know-Good-Die(KGD) product line of above products.

關於晶豪科技

晶豪科技股份有限公司 (Elite Semiconductor Microelectronics Technology Inc., ESMT) 為一專業 IC 設計公司，主要業務包含 IC 產品之研究、開發、製造、銷售及相關技術服務。公司自創立時便以成為客戶各類型記憶體產品及技術之供應者為職志。有別於搭配於電腦系統應用之主記憶體，本公司研發之 DRAM 產品以特定型記憶體為主，可廣泛應用於 PC 週邊、資訊家電、光儲存設備及消費性、通訊等系統，目前已成功建立各種容量 (1Mb 至 256Mb) 的特定型 DRAM 產品線 (包括 FPM、EDO、SDRAM、DDR 等)，和低耗電之 Mobile DRAM；在快閃記憶體方面，目前以 NOR Flash 為主，已先後推出一系列不同容量和介面的 Flash 產品 (含 2Mb 至 32Mb, Parallel 及 Serial Flash)。另外，由於系統級封裝 (System in Package; SiP) 及多晶片模組封裝 (Multi-Chip Package; MCP) 之需求快速增加，晶豪科技也已經成功開發上述各項產品之「良品晶粒」產品 (Known-Good-Die; KGD)，以因應市場之發展。

About Audio/Power Product BU

Audio/Power Product BU of Elite Semiconductor Microelectronics Technology Inc. was formed by Class D product line and Elite Micropower Inc. on August, 2008 and locates at the Hsinchu Science-Based Industrial Park in Taiwan. Business activities consist of R&D, manufacturing, marketing and sales. ESMT's product lines include Power Management IC, Audio Power Amplifier, Battery Management IC, Lighting Management IC, and intelligent Power Management Unit. ESMT provide power management and audio amplifier total solution of consumer electronics, computer and peripherals and communication system.

關於音訊/電源產品事業單位

晶豪/音訊/電源產品事業單位由D類功放產品線與晶鎂電子的電源管理IC於2008年8月所組成，是以台灣為基地深耕於電源相關產品積體電路設計。音訊/電源產品事業單位位於新竹科學園區，業務活動涵括研發與設計、製造、行銷。產品線包含電源及音頻功率放大器積體電路、電池管理元件、照明管理元件及智慧型電源模組。晶豪科技音訊/電源產品事業單位可提供各類型消費型電子產品、電腦及其週邊、通訊產品系統之電源管理及音頻放大的解決方案。

品質認證 Quality Certification

提供卓越產品,滿足顧客對品質的要求。

To provide excellent products that meet the quality requirements of our customers

透過全員參與,實現公司對品質的承諾。

To fulfill the quality commitment through the involvement of all corporate members in all activities

ISO-9001 / ISO-14001 Certified



Current issue date: 1 July 2020
Supply date: 14 August 2021
Certificate identity number: 10277213

Original approval: ISO 9001 - 17 August 2008

Certificate of Approval

This is to certify that the Management System of:

**Elite Semiconductor
Microelectronics Technology Inc.
Elite Memory Technology Inc.**

No. 23, Industrial E. Road IV, Science-Based Industrial Park, Hsinchu 300, Taiwan

has been approved by Lloyd's Register to the following standards:

ISO 9001:2015

Approval number(s): ISO 9001 - 0065681

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:
Design and Management of manufacture of integrated circuit.



Rhett Wang
Area Operations Manager, Greater China

Issued by: Lloyd's Register Inspection Limited Taiwan Branch
for and on behalf of: Lloyd's Register Quality Assurance Limited



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Current issue date: 1 July 2020
Supply date: 18 February 2023
Certificate identity number: 10277212

Original approval: ISO 14001 - 18 March 2008

Certificate of Approval

This is to certify that the Management System of:

**Elite Semiconductor
Microelectronics Technology Inc.
Elite Memory Technology Inc.**

No. 23, Industrial E. Road IV, Science-Based Industrial Park, Hsinchu 300, Taiwan

has been approved by Lloyd's Register to the following standards:

ISO 14001:2015

Approval number(s): ISO 14001 - 0065680

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:
Design and management of manufacture of integrated circuits



Rhett Wang
Area Operations Manager, Greater China

Issued by: Lloyd's Register Inspection Limited Taiwan Branch
for and on behalf of: Lloyd's Register Quality Assurance Limited



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目標市場 Target Market



LCD-TV

LCD
Monitor



PC
Cam



Smart
Phone



CAR AVN



Car Charger



Traffic recorder



CAR rearview mirror



Sound Bar



BT Speaker



Tablet
PC



Notebook



STB



AI Speaker



SSD

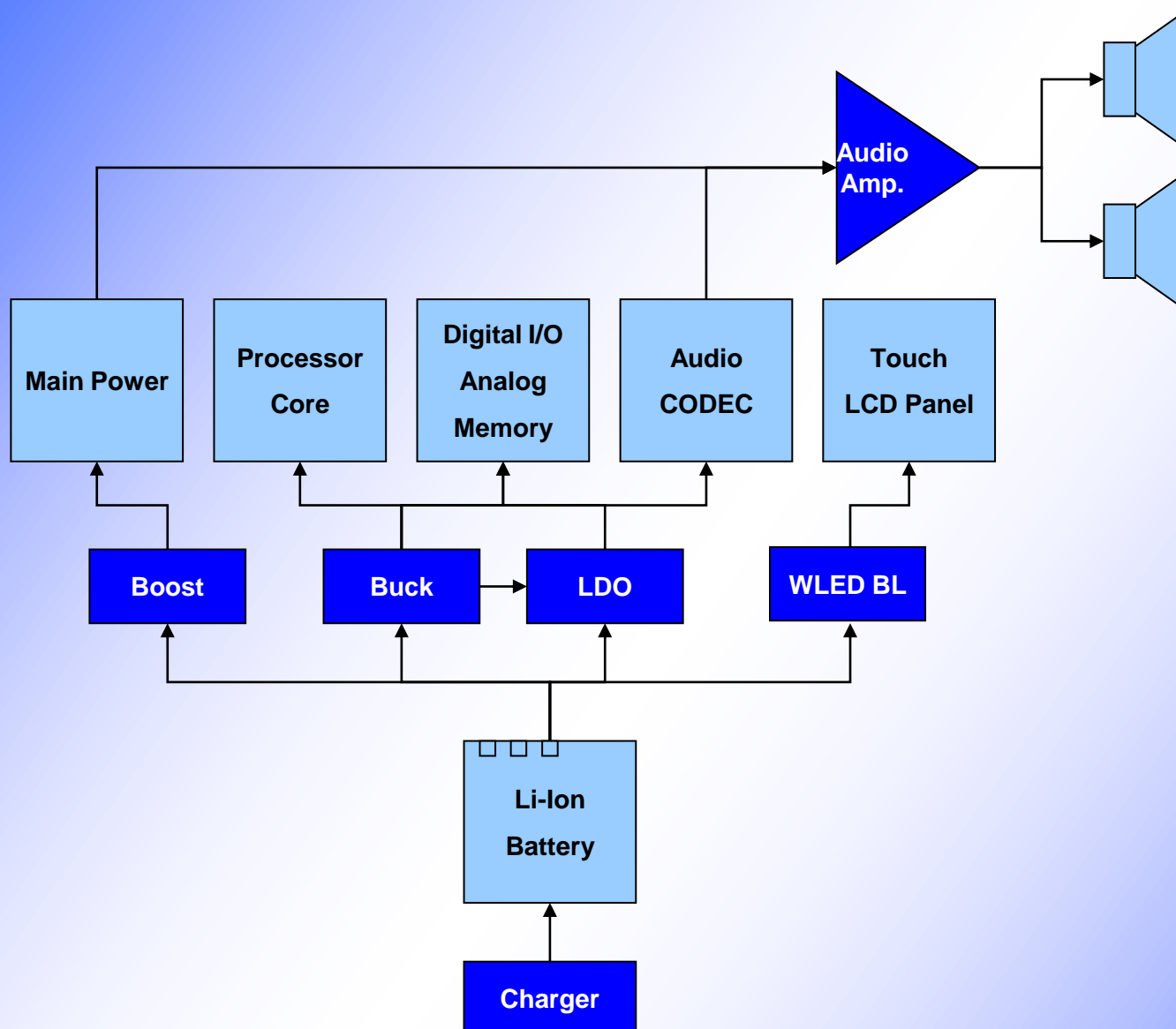


Speaker



All Products are Lead-Free, RoHS / Green Compliant

Handheld Devices Solution 手持式產品解決方案



Charger

EMC575X/EMC504X

Boost

EMH7070/ EMH7090

Buck

EML3493/EML338X/EML332X

LDO

EMP8130/EMP8965/EMP8042B
/EMP8110/EMP8150

WLED BL

EMD2050/EMD2055
EMD2095/EMD3001

Audio Amp.

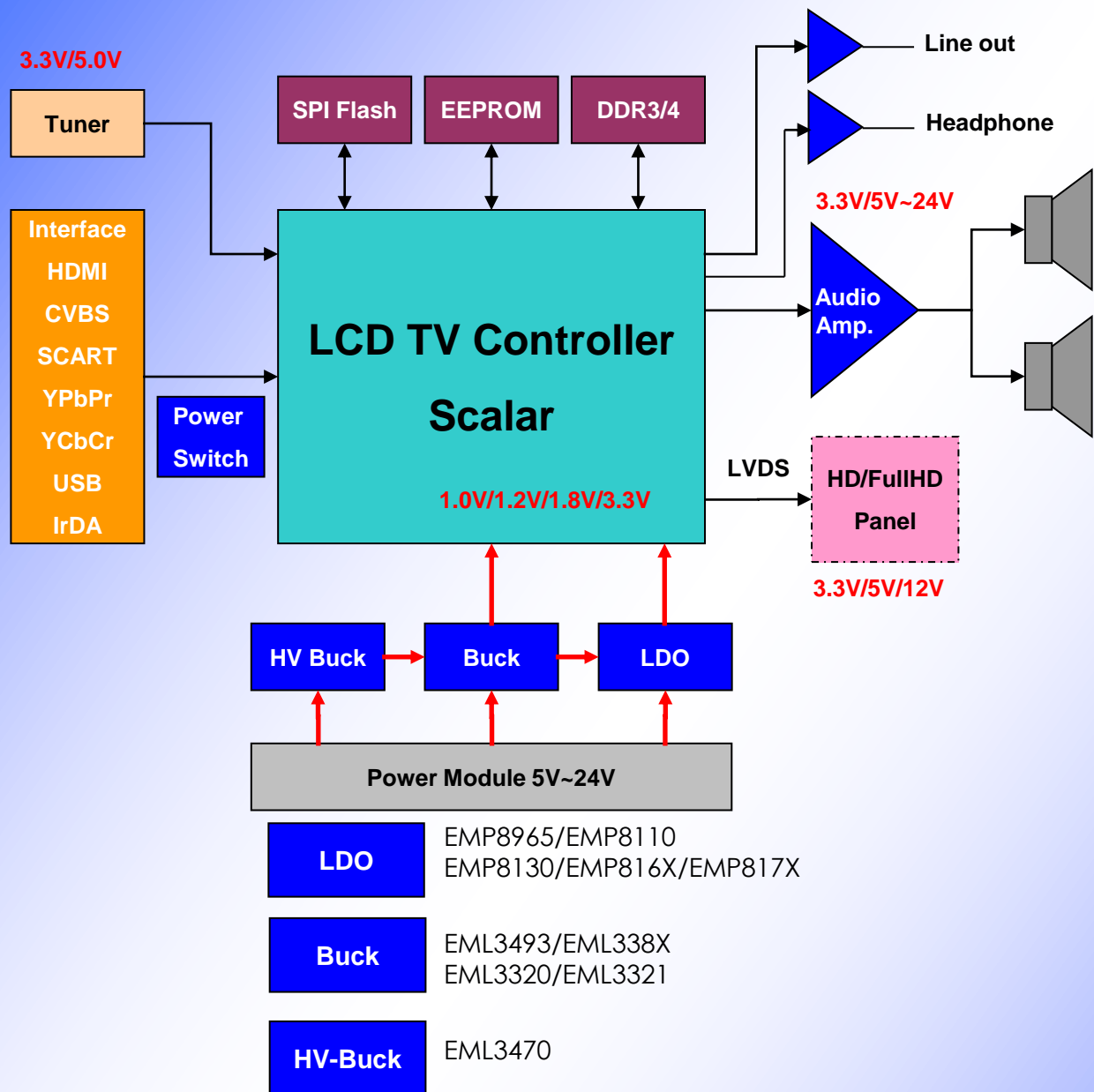
Mono:

AD51652/AD51652B

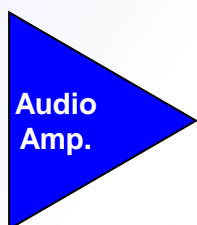
Stereo:

AD52651C/AD52656/AD52010/AD52080

LCD-TV Solution 液晶電視解決方案



5W~50Wx2



Analog Input Amp:

AD52050C/AD52060/
AD52060B/AD52070/AD52090/AD52095B

Digital Input Amp:

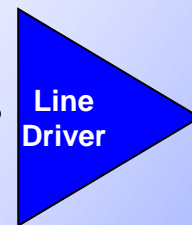
Non-EQ: AD82010/AD82050/AD82111

EQ:

AD82088/AD82088D/AD82120/AD82120B/
AD82180/AD83586C

Digital input Amp + Line Driver:

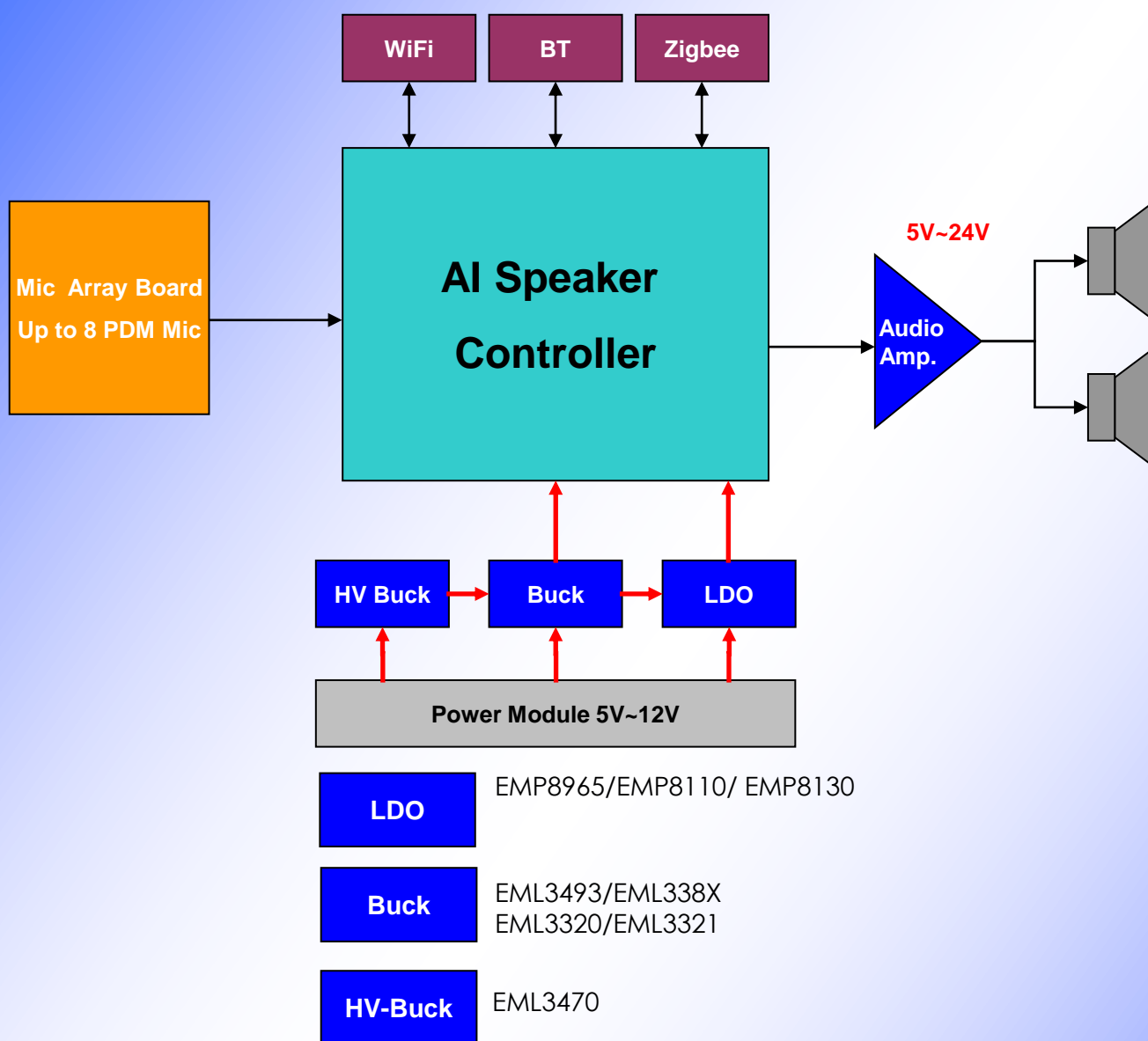
AD87010/AD87088



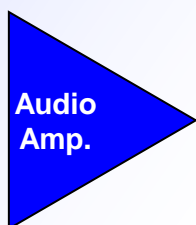
Line driver:

AD22650/AD22653B
AD22654/AD22657B

AI Speaker Solution 智能音箱解決方案



3W~10W



Analog Input Amp:

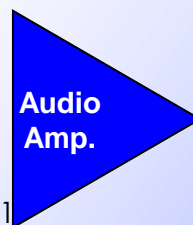
AD51652/AD51652B/AD51050B/
AD52058C

Digital Input Amp:

Non-EQ: AD82010/AD82050/AD82111

EQ: AD82584F/AD82128/AD82129

10W~50Wx2



Analog Input Amp:

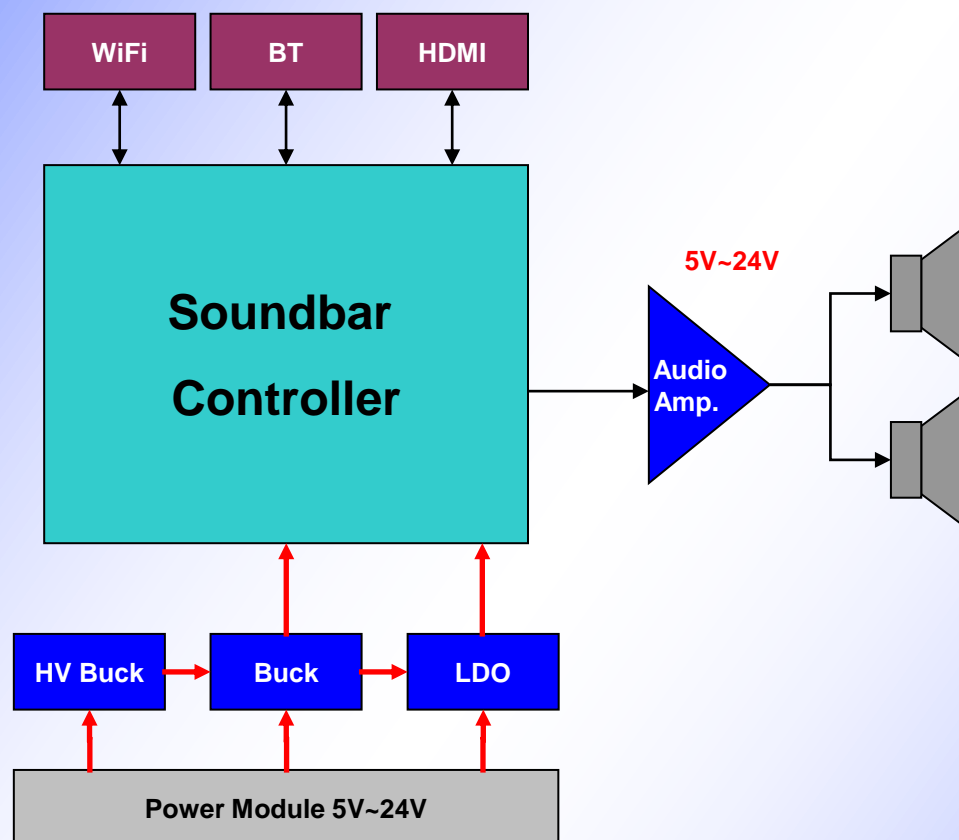
AD52068/AD52068B/AD52070/AD52090/
AD52095B

Digital Input Amp:

Non-EQ: AD82010/AD82050/AD82111

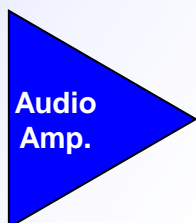
EQ: AD82178/AD82584F/AD82128/
AD82128B/AD82129/AD85050

Soundbar Solution 聲霸解決方案



LDO	EMP8965/EMP8110/ EMP8130
Buck	EML3493/EML338X EML3320/EML3321
HV-Buck	EML3193B/EML3290

3W~10Wx2



Analog Input Amp:

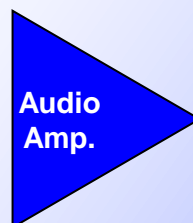
AD52058C

Digital Input Amp:

Non-EQ: AD82010/AD82050/AD82111

EQ:AD82584F/AD82128/AD82129

10W~50Wx2



Analog Input Amp:

AD52068/AD52068B/AD52070/AD52090/
AD52095B

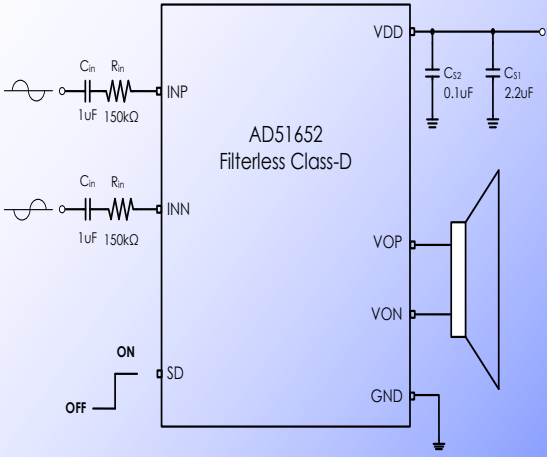
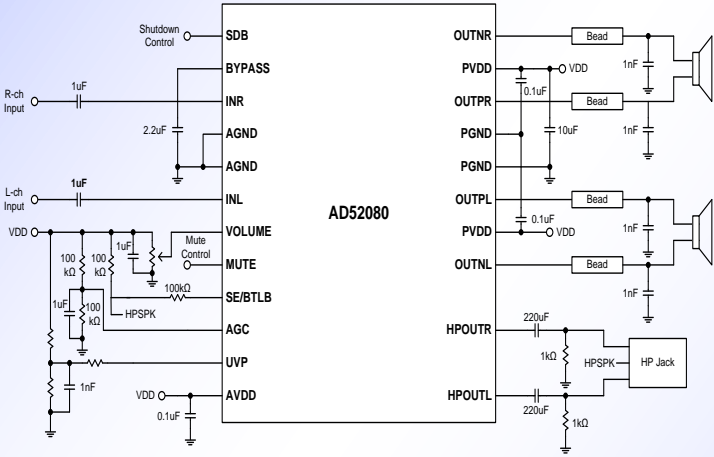
Digital Input Amp:

Non-EQ: AD82010/AD82050/AD82111

EQ:AD82178/AD82584F/AD82128/
AD82128B/AD82188/AD85050/AD83586C

D類低功率音頻放大器 Analog-input/Digital-input Class D

Product ID	Ch	VDD (V)	Power (W)	Load (ohm)	Package	Features	Status
AD51652-MH08NRR AD51652-FH08NRR	1	5.5	5	8/4/2	MSOP-8L TDFN-3x3-8	Fully Diff.	MP
AD51652B-WL09NRR	1	5.5	3	8/4/2	WCSP-9	Fully Diff.	MP
AD52010-QG14NRR	2	5.5	3	8/4	E-TSSOP-14L	Fully Diff.	MP
AD52080-HI20NRR AD52080-HH20NRR	2	5.5	3	8/4	TQFN-20L (4mmx4mm) TQFN-20L (3mmx3mm)	DC Vol. Ctrl. AGC Earphone P2P Solution	MP
AD52651C-ST24NAT	2	5.5	3	8/4	SSOP-24L (150mil)	Vol. Ctrl. New VDC ratio	MP
AD52656-ST24NAR	2	5.5	2.5	8/4	SSOP-24L (150mil)	Vol. Ctrl. Power Limit Headphone	MP



D類高功率音頻放大器 Analog-input/PWM-input Class D

Product ID	Ch	VDD (V)	Power (W)	Load (ohm)	Package	Features	Status
AD51050B-26QH14NRR	1	4.5~14.4	8	8/4	TSSOP-14L	Analog In 26dB gain Filter-Free	MP
AD51058C-HH20NRR	1	4.5~14.4	15	8/4	TQFN-20L	Analog In 26dB gain Filter-Free	MP
AD52050C-26QG28NRR	2	8~14.4	15	8/4	E-TSSOP-28L	Analog In 26dB gain Power Limit P2P solution	MP
AD52051C-26QG16NRR	2	4.5~14.4	15	8/4	E-TSSOP-16L	Analog In 26dB gain	MP
AD52052C-26QG28NRR	2	8~14.4	15	8/4	E-TSSOP-28L	Analog In 36dB gain Power Limit P2P solution	MP
AD52053C-26SG16NRR AD52053C-36SG16NRR	2	4.5~14.4	15	8/4	E-SOP-16L	Analog In 26/36dB gain	MP
AD52058C-26QG28NRR	2	4.5~14.4	15	8/4	E-TSSOP-28L	Analog In 26dB gain Power Limit P2P solution	MP
AD52060-QG28NRR AD52060B-QG28NRR	2	8~26	20	8/4	E-TSSOP-28L	Analog In Four gain Power Limit Mute/SD P2P solution	MP
AD52067C-26QG28NRR	2	2.9~12	15	8/4	E-TSSOP-28L	Analog In 26dB gain Filter-Free Booster	MP
AD52068-QG28NRR AD52068B-QG28NRR	2	4.5~26	20	8/4	E-TSSOP-28L	Analog In Four gain Power Limit Mute/SD P2P solution	MP
AD52070-QG28NRR	2	4.5~26	30	8/4/2	E-TSSOP-28L	Analog In Four gain Power Limit AGC AM Avoidance	MP
AD52090-QG28NRR	2	4.5~26	30	8/4/2	E-TSSOP-28L	Analog In Four gain Power Limit P2P solution	MP
AD52095B-QG28NRR	2	4.5~26	2x50W 1x100W	8/4/2	E-TSSOP-28L (Epad-Up)	Analog In Four gain Power Limit	MP

D類高功率音頻放大器 with EQ Digital-input Class D

Product ID	Ch	VDD (V)	Power (W)	Load (ohm)	Package	Features	Status
AD82088-QG24NRR AD82088-LG48NRY AD82088-01LG48NRR	2	8~26	20	8/4	E-TSSOP-24L E-LQFP-48L	I ² S In/I ² C;Vol./Mute 30 Bands EQ Power Clipping Three Band DRC With post DRC Noise Gate/3D I ² S Out/MCLK-Less P2P solution	MP
AD82088D-QG24NRR	2	8~26	31	8/4	E-TSSOP-24L	I ² S In/I ² C;Vol./Mute 3.3V/1.8V I/O 40 Bands EQ Power Clipping Three Band DRC With post DRC Noise Gate/3D I ² S Out/MCLK-Less auto clock detection P2P solution	MP
AD82120-QG28NRR	2	8~26	25	8/4	E-TSSOP-28L	I ² S In/I ² C;Vol./Mute 3.3V I/O 32 Bands EQ Power Clipping Three Band DRC With post DRC Noise Gate/3D/TDM Spread Spectrum I ² S Out/MCLK-Less Closed-Loop P2P solution	MP
AD82120B-QG28NRR	2	8~26	25	8/4	E-TSSOP-28L	I ² S In/I ² C;Vol./Mute 3.3V/1.8V I/O 46 Bands EQ/DPEQ Power Clipping Three Band DRC With post DRC+AGC Noise Gate/3D/TDM Spread Spectrum I ² S Out/MCLK-Less auto clock detection Closed-Loop P2P solution	MP
AD82128-QG28NRR AD82128-01QG28NRR	2	4.5~26	31	8/4	E-TSSOP-28L	I ² S In/I ² C;Vol./Mute 3.3V/1.8V I/O 32 Bands EQ Power Clipping Three Band DRC With post DRC Noise Gate/3D/TDM Spread Spectrum I ² S Out/MCLK-Less Closed-Loop P2P solution	MP
AD82128B-QG28NRR	2	4.5~26	37	8/4	E-TSSOP-28L	I ² S In/I ² C;Vol./Mute 3.3V/1.8V I/O 46 Bands EQ/DPEQ Power Clipping Three Band DRC With post DRC+AGC Noise Gate/3D/TDM Spread Spectrum I ² S Out/MCLK-Less auto clock detection Closed-Loop P2P solution	MP

D類高功率音頻放大器 with EQ Digital-input Class D

Product ID	Ch	VDD (V)	Power (W)	Load (ohm)	Package	Features	Status
AD82129-QG28NRR	2	4.5~26	25	8/4	E-TSSOP-28L	I ² S In/I ² C;Vol./Mute 3.3V/1.8V I/O ; MCLK Input 32 Bands EQ; Power Clipping Three Band DRC with post DRC Noise Gate/3D/TDM Spread Spectrum I ² S Out/MCLK-Less Closed-Loop	MP
AD82178-QG24NRR	2	4.5~26	31	8/4	E-TSSOP-24L	I ² S In/I ² C;Vol./Mute 3.3V/1.8V I/O 40 Bands EQ; Power Clipping Three Band DRC with post DRC Noise Gate/3D I ² S Out/MCLK-Less auto clock detection P2P solution	MP
AD82180-QG28NRR	2	8~26	30	8/4	E-TSSOP-28L	I ² S In/I ² C;Vol./Mute 3.3V/1.8V I/O 46 Bands EQ/DPEQ; Power Clipping Three Band DRC with post DRC+AGC Noise Gate/3D/TDM Spread Spectrum I ² S Out/MCLK-Less auto clock detection Closed-Loop SLD/OLD/DTC P2P solution	MP
AD82188-QG28NRR	2	4.5~26	42	8/4	E-TSSOP-28L	I ² S In/I ² C;Vol./Mute 3.3V/1.8V I/O 46 Bands EQ/DPEQ; Power Clipping Three Band DRC with post DRC+AGC Noise Gate/3D/TDM Spread Spectrum I ² S Out/MCLK-Less auto clock detection Closed-Loop SLD/OLD/DTC P2P solution	MP
AD82584F-QG24NRR AD82584F-LG48NRY	2	4.5~26	25	8/4	E-TSSOP-24L E-LQFP-48L	I ² S In/I ² C;Vol./Mute 30 Bands EQ; Power Clipping Three Band DRC with post DRC Noise Gate/3D MCLK-Less P2P solution	MP
AD85050-LG48NRR	2	4.5~26	30	8/4/2	E-LQFP-48L	I ² S In/I ² C; Vol./Mute 36 Bands EQ Three Band DRC with post DRC Noise Gate/3D I ² S Out/MCLK-Less Virtual Bass/exciter Closed Loop	MP
AD83586B-LG48NAY	1 2 2.1	7~26	80 /40x2 /20x2+4 0	8/4	E-LQFP-48L	I ² S In/I ² C;Vol./Mute 20 Bands EQ Dual Band DRC Noise Gate Channel Mixing	MP
AD83586C-LG48NAY	1 2 2.1	4.5~26	120x1 /60x2 /30x2+6 0	8/4	E-LQFP-48L	I ² S In/I ² C;Vol./Mute 36 Bands EQ One Band DRC Noise Gate Channel Mixing auto clock detection I ² S Out	MP

D類高功率音頻放大器 Non-EQ Digital-input Class D

Product ID	Ch	VDD (V)	Power (W)	Load (ohm)	Package	Features	Status
AD82010-QG24NRR	2	4.5~26	20	8/4	E-TSSOP-24L	I ² S In/I ² C;Vol./Mute Power Clipping DRC/Noise Gate MCLK-Less/Filter-Less Closed-Loop	MP
AD82050-QG24NRR	2	4.5~26	20	8/4	E-TSSOP-24L	I ² S In/I ² C;Vol./Mute DRC/DTC/TDM Power Clipping I ² S Out/MCLK-Less Noise Gate P2P solution	MP
AD82111-QG24NRR AD82111-QG28NRR	2	4.5~26	25	8/4	E-TSSOP-24L E-TSSOP-28L	I ² S In/I ² C;Vol./Mute 3.3V/1.8V I/O ; MCLK Input 32 bits audio data path Power Clipping/DTC DRC/Noise Gate/TDM Spread Spectrum I ² S Out/MCLK-Less/Filter-Less Closed-Loop	MP

D類高功率音頻放大器 Digital-input Class D + Line Driver

Product ID	Ch	VDD (V)	Power (W)	Load (ohm)	Package	Features	Status
AD87010-LG48NRY	2	8~26	20	8/4	E-LQFP-48L	I ² S In/I ² C;Vol./Mute Power Clipping DRC Noise Gate MCLK-Less/Filter-Less Closed-Loop Line Driver	MP
AD87088-01LG48NRY	2	8~26	20	8/4	E-LQFP-48L	I ² S In/I ² C;Vol./Mute 30 Bands EQ Power Clipping Three Band DRC With post DRC Noise Gate/3D I ² S Out/MCLK-Less Line Driver	MP

音頻類比數位轉換器 USB Audio, Line Driver & ADC/DAC

Product ID	Ch	VDD (V)	Power (W)	Load (ohm)	Package	Features	Status
AD12250A-SG/TR	2	3.3	NA	NA	TSSOP-16	24 bits I ² S out A/D Converter	MP
ADD2010-QG28NRR	2	3.3	NA	NA	TSSOP-28	I ² S In/I ² C; Vol./Mute 36 Bands EQ Three Band DRC Virtual Bass/exciter 2 Vrms Output D/A Converter	MP
ADD2012-QG28NRR	2	3.3	NA	NA	TSSOP-28	I ² S In/I ² C; Vol./Mute 36 Bands EQ Three Band DRC Virtual Bass/exciter 2 Vrms Output D/A Converter I ² C 4 device address	MP
AD22650-QH14NAR	2	5/3.3	NA	NA	TSSOP-14	3 Vrms Line Driver Popless	MP
AD22653B-QH14NAR	2	3.3	NA	NA	TSSOP-14	2 Vrms Line Driver Popless	MP
AD22654-MH10NAR	2	5/3.3	NA	NA	MSOP-10	3 Vrms Line Driver Popless	MP
AD22657B-MH10NAR	2	3.3	NA	NA	MSOP-10	2 Vrms Line Driver Popless	MP
AD62556-LG48NAY	2	5.5	NA	NA	E-LQFP-48L	USB interface Microphone/Line in I ² S in/out Earphone Win7 Logo Recording	MP
AD62557-LG48NAY	2	5.5	2.1	4	E-LQFP-48L	USB interface Microphone/Line In I ² S in/out Class D Amp. Win7 Logo Recording	MP

單通道低壓差線性穩壓器 1-Ch LDO

Product ID	Iout (A)	Vin (V)	Vout (V)	Vdo (mV)	Feature	Package	Status
EMP8040B-00VF05NRR	0.15	3.0~36	Adj(1.2V)	450	HV, Low Iq	SOT-23-5	MP
EMP8041B-xxVF05NRR	0.15	3.0~36	3.3/5.0	450	HV, Low Iq	SOT-23-5	MP
EMP8042B-xxVF05NRR EMP8042B-xxVG03NRR EMP8042B-xxVN03NRR	0.15	3.0~20	Adj(1.2V)3.3/5.0	450	HV, Low Iq	SOT-23-5 SOT-89-3 SOT-23-3	MP
EMP8045-xxSG08VCR EMP8045-xxVN05VCR	0.15	3.0~32	Adj(3.3/5.0)	780	Low Dropout AEC-Q100	E-SOP-8L SOT-23-5	MP
EMP8047-xxVN05VCR	0.15	3.0~18	Adj(3.3)	780	Low Dropout AEC-Q100	SOT-23-5	MP
EMP8150-xxFJ04NRR EMP8150-xxVN05NRR EMP8150-xxVN03NRR	0.25	1.8~5.5	0.8/1.2/1.25/1.5/1.8/1.9/2.8/3.0/3.1 3.3	220	High PSRR Low Iq	uDFN-1x1-4 SOT-23-5 SOT-23-3	MP
EMP8130-xxVN05NRR EMP8130-xxFJ04NRR	0.3	1.7~5.5	0.8/1.0/1.2/1.3/1.5/1.8/2.5/2.8/3.0/ 3.3	260	High PSRR	SOT-23-5 uDFN-1x1-4	MP
EMP8130-xxVN03NRR EMP8130-xxFK06NRR	0.3	1.7~5.5	1.2/1.5/1.8/2.8/3.0/3.3/4.2	260	High PSRR	SOT-23-3 DFN2X2-6	MP
EMP8965-xxVF05GRR EMP8965-xxFK06NRR	0.6	2.5~5.5	1.2/1.5/1.8/2.5/3.0/3.3	270	High PSRR Low Dropout	SOT-23-5 TDFN-6	MP
EMP8966-xxVF05NRR EMP8966-xxVC06NRR	0.6	2.5~5.5	Adj	270	High PSRR Low Dropout	SOT-23-5 SOT-23-6	MP
EMP8161/A-00SG08NRR	1	1~5.5	Adj	90	High Current Low Dropout	E-SOP-8L	MP
EMP8166/A-xxSG08NRR EMP8166/A-xxVN06NRR	1	1~5.5	Adj	90	High Current Low Dropout	E-SOP-8L SOT-23-6	MP
EMP8110-xxVEJ3NRR EMP8110-xxVEG3NRR EMP8110-xxSG08NRR	1.5	2.5~6.5	1.2/1.5/1.8/2.5/3.3	300	High Current Low Dropout	SOT-223 E-SOP8	MP
EMP8160/A-00SG08NRR EMP8160A-12SG08NRR	2	1~5.5	Adj(1.2)	185	High Current Low Dropout	E-SOP-8L	MP
EMP8165/A-00SG08NRR	2	1~5.5	Adj	185	High Current Low Dropout	E-SOP-8L	MP
EMP8170/A-00SG08NRR	3	1~5.5	Adj	280	High Current Low Dropout	E-SOP-8L	MP
EMP8175/A-00SG08NRR	3	1~5.5	Adj	280	High Current Low Dropout	E-SOP-8L	MP

降壓式開關穩壓器 DC/DC Buck Converter

Product ID	I _{out} (A)	V _{in} (V)	V _{out} (V)	V _{fb} (V)	Freq. (MHz)	Control	Package	Status
EML3493-00VN05NRR	1.0	2.5~5.5	Adj	0.6	1.5	Sync./PSM/PWM	SOT-23-5	MP
EML3380-xxFK06NRR EML3380-00VN05NRR	1.0	2.6~5.5	Adj/1.2/3.3	0.6	1.5	Sync./PSM/PWM	TDFN-6 SOT-23-5	MP
EML3383-00VN05NRR	1.0	2.6~5.5	Adj	0.6	1.5	Sync./PSM/PWM	SOT-23-5	MP
EML3500-00VN06NRR	2.5	2.5~5.5	Adj	0.6	1	Sync./PSM/PWM	SOT-23-6	MP
EML3505-00FK08NRR	3.0	2.5~5.5	Adj	0.6	1	Sync./PSM/PWM	TDFN-8	MP
EML3193B-00SG08NRR EML3193B-00FH10NRR	3	4.5~36	Adj	0.808	Adj	Async./PSM/PWM External Freq. Adj OVP	E-SOP-8L TDFN-10L	MP
EML3290-00SG08NRR	3	4.5~40	Adj	0.805	Adj	Sync./PWM External Freq. Adj OVP	E-SOP-8L	MP
EML3420-00SG08NRR	6	4.5~40	Adj	0.8	Adj	Async./PWM External Freq. Adj OVP	E-SOP-8L	MP
EML3421-00SG08NRR	6	4.5~40	Adj	0.8	Adj	Async./PWM External Freq. Adj OVP	E-SOP-8L	MP
EML3470-00VU06NRR	3	4.5~17	Adj	0.8	Adj	Sync./PSM/PWM Constant on time Adj/OVP	TSOT-23-6	MP
EML3350-00SG08NRR	1.5	4.5~60	Adj	0.808	Adj	Async./PWM External Freq. Adj OVP	E-SOP-8L	MP

升壓式開關穩壓器 DC/DC Boost Converter

Product ID	Current limit (A)	V _{in} (V)	V _{out} (V)	Freq. (kHz)	Control	Package	Feature	Status
EMH7070-00VN06NRR	2.5	2.6~5.5	Adj(0.6V) V _{out} (12V)	1000	Async./PWM	SOT-23-6	OVP, OCP,OTP	MP
EMH7090-00SG08NRR	6.0	2.9~12	Adj(0.6V) V _{out} (14V)	500	Async./PWM	E-SOP-8L	OVP, OCP,OTP	MP

電池充電IC Battery Charger

Product ID	Cell	Iout (A)	Operation Vin (V)	Vbat (V)	Vout (V)	Accuracy	Package	Features	Status
EMC5754-00VF05GRR EMC5754-00SG08NRR	1	1.0	4.25~5.5	4.2	---	±1%	SOT-23-5 SOP-8-E	Linear	MP
EMC5755-00FF06NRR	1	1.2	4.25~5.5	4.2	---	±1%	TDFN- 3x3-6	Linear	MP
EMC5040-42FF10NRR EMC5040-42SG08NRR	1	1.2	4.5~6.5 (MaxRating- 13.5V)	4.2	---	±1%	TDFN-3x3-10 E-SOP-8L	Linear TS	MP
EMC5042-84FF10NRR	2	1.2	9.0~13.5 (MaxRating- 15V)	8.4	---	±1%	TDFN-3x3-10	Linear TS	MP

DC/DC LED Driver

Product ID	Topology	Vin (V)	Ch.	Dimm	OVP (V)	Max. Iout/Ch (mA)	Package	Features	Status
EMD2050-00VC06NRR	Boost	2.5~5.5	1	PWM	15	*1	SOT-23-6	3S13P	MP
EMD2055-00VC06NRR EMD2055-00FK08NRR	Boost	2.5~5.5	1	PWM	36	*1	SOT-23-6 TDFN-2x2-8	10S3P	MP
EMD2095-00VC06NRR	Boost	2.5~5.5	1	PWM	31	*1	SOT-23-6	8S3P	MP
EMD3001-50FE06GRR EMD3001-50VC06GRR	Charge Pump	2.7~4.5	1	PWM	---	100	TDFN-2x2-6 SOT-23-6		MP

Gate Driver Photocoupler

Product ID	I _{out} max(A)	Operation V _{in} (V)	t _{PLH} max(us)	t _{PHL} max(us)	CMH typ. (kV/us)	CML typ. (kV/us)	Viso min(Vrms)	Package	VDE	Status
EMD2A314-00SK06EFR1 EMD2A314-00SL06EFR1	1.5	10~30	0.11	0.11	40	40	5000	LSOP-6	Yes	MP
EMD2A314-00SK06NFR1 EMD2A314-00SL06NFR1	1.5	10~30	0.11	0.11	40	40	5000	LSOP-6	No	MP
EMD2A341-00SK06EFR1 EMD2A341-00SL06EFR1	3.0	15~30	0.11	0.11	40	40	5000	LSOP-6	Yes	MP
EMD2A341-00SK06NFR1 EMD2A341-00SL06NFR1	3.0	15~30	0.11	0.11	40	40	5000	LSOP-6	No	MP
EMD2A343-00SK06EFR1 EMD2A343-00SL06EFR1	4.0	15~30	0.11	0.11	40	40	5000	LSOP-6	Yes	MP
EMD2A343-00SK06NFR1 EMD2A343-00SL06NFR1	4.0	15~30	0.11	0.11	40	40	5000	LSOP-6	No	MP

IPM Photocoupler

Product ID	Output Form	Data Rate typ. Mbps	Operation V _{in} (V)	t _{PLH} max(us)	t _{PHL} max(us)	CMH Min. (kV/us)	CML Min. (kV/us)	Package	VDE	Status
EMD2A480-00SK06EFR1 EMD2A480-00SL06EFR1	Totem pole	5	4.5~30	0.22	0.22	20	20	LSOP-6	Yes	Sample
EMD2A480-00SK06NFR1 EMD2A480-00SL06NFR1	Totem pole	5	4.5~30	0.22	0.22	20	20	LSOP-6	No	Sample
EMD2A481-00SK06EFR1 EMD2A481-00SL06EFR1	Totem pole (Inverter)	5	4.5~30	0.22	0.22	20	20	LSOP-6	Yes	Sample
EMD2A481-00SK06NFR1 EMD2A481-00SL06NFR1	Totem pole (Inverter)	5	4.5~30	0.22	0.22	20	20	LSOP-6	No	Sample

High Speed Photocoupler

Product ID	Output Form	Data Rate typ. Mbps	Operation V _{in} (V)	t _{PLH} max(us)	t _{PHL} max(us)	CMH Min. (kV/us)	CML Min. (kV/us)	Package	VDE	Status
EMD2A611-00SK06EFR1 EMD2A611-00SL06EFR1	Open collector (Inverter)	10	4.5~5.5	0.075	0.075	10	10	LSOP-6	Yes	Sample
EMD2A611-00SK06NFR1 EMD2A611-00SL06NFR1	Open collector (Inverter)	10	4.5~5.5	0.075	0.075	10	10	LSOP-6	No	Sample

紅外線濾光片驅動/IR-cut filter Driver

Product ID	Operation Voltage (V)	Vout headroom (HS+LS) (mA)			Package	Features	Status
ET1511A	1.8~5.5	0.47V(200mA)	0.76V(300mA)	1.15V(400mA)	SOT-23-6	Dual-wire control	MP
ET1511B	1.8~5.5	0.47V(200mA)	0.76V(300mA)	1.15V(400mA)	SOT-23-6	One-shot control	MP

環境溫度感測器/On-chip Digital Temperature Sensor

Product ID	Supply Voltage (V)	Quiescent Supply (uA)	TEMP range/ Resolution (°C)	TEMP Accuracy Typ. (°C)	Digital Interface	Max. device address	Package	Status
ETS75A	2.5~5.5	125uA	-40~125°C/ 0.0625°C	0.5°C@ 0~100°C 1.0°C@-40~125°C	I2C	32 devices	EMSOP-8L	MP

H Bridge Driver Integrated MOSFETs

Product ID	Motor Voltage (V)	Peak Driver (A)	Operation Temperature (°C)	Sleep Mode Current (nA)	Input Interface	Max. PWM Frequency	Package	Status
EHB0528	2.8~11	1	-40~85°C	120	PWMx2	250KHz	DFN2x2-8	Sample

Optical Sensor

Product ID	Operation Vin (V)	Active PS Mode Current (uA)	Active ALS Mode Current (uA)	Idle Mode Current (uA)	Sleep Mode Current (uA)	Cross talk Cancellation	Interface	Package	Status
ELA2500 (ALS)	1.7~2.0	---	139	---	0.5	---	I ² C	OPLGA(mm) 2.0x1.0x0.5	Sample
ELA2502 (ALS)	1.8~3.6	---	128	---	0.5	---	I ² C	OPLGA(mm) 2.0x2.0x0.6	Sample
ELA2506 (ALS)	1.8~3.6	---	139	---	0.5	---	I ² C	OPLGA(mm) 2.95x1.4x1.6	Sample
ELP2600 (PS)	1.7~2.0	315	---	24	0.5	8 bit	I ² C	OPLGA(mm) 2.0x1.0x0.5	Sample
ELP2602 (PS)	1.7~2.0	315	---	24	0.5	8 bit	I ² C	OPLGA(mm) 1.5x1.0x0.5	Sample
ELM2712B (ALS+PS)	1.7~2.0	322	124	23	0.5	8 bit	I ² C	OPLGA(mm) 2.0x1.0x0.5	Sample

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