

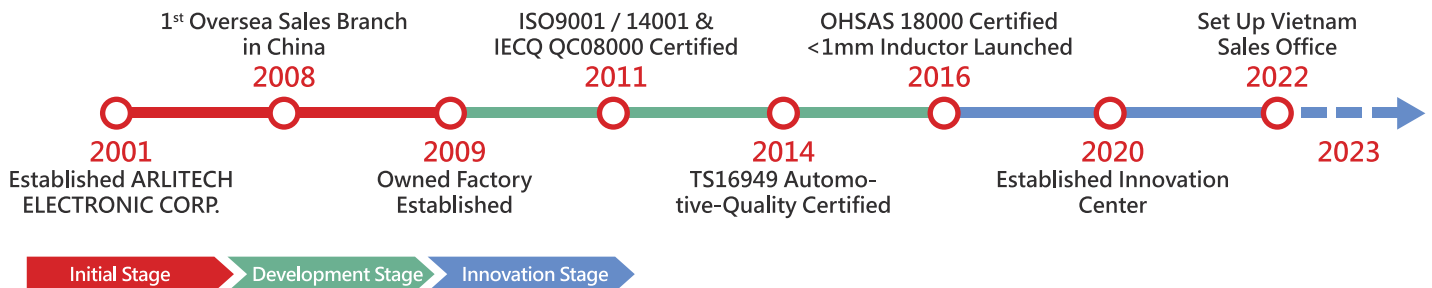
About Us

Arlitech Electronic Corp.



Arlitech Electronic Corp. (Arlitech) is one of the major inductor suppliers in Great China area, and LCD panel industry is our main market.

As the power consumption increases, more attention is paid to the wireless transmission quality and more stringent in mainly requirement of electrical characteristics. As a result, the application in using inductors is getting wider. Our inductors are used in various industries such as Panel, Netcom, smart meters and consumer electronics industries, and also aim at penetrating into segments of industry and automotive electronics, medical and white goods.




INDEX

Introduction	About Us	
	Brand Line Card	1
	Overall Service Introduction	3
	Agent Line Introduction	4
Power Inductors	High Current Power Inductors	7
	SMD Power Inductors	7
	RF Inductors	8
	EMI Suppression Filters	9
	DIP Power Inductors	9
Thermal Products	Aluminum Extruded Heat Sink	10
	Thermal Module Products	10
	Thermal Solution for Intel Server	10
	Thermal Solution for AMD Server	12
	High Thermal Conductivity Die-Casting Product	12
	Graphene Spray Product Introduction	13
	Thermal Conductive Plastic	13
	Thermal Simulation	14
Parts Service	Artery Technology Corporation	
	AT32 M4/M0+ MCU FAMILY	15
	AT32 MCU Ecosystem	16
	PANJIT International Inc.	
	Surface Mount Type Package Outline	17
	Power Package Outline	18
	NIDEC Corporation	
	Medium- and large-size motors	19
	Small-size and precision motors	19
	Mold, molding, cutting, and machining components	19
	Charger	20
	Air Purifier / Electric Fan	20
	Washers/Dryers	20
	Dishwashers	20
	Vacuum Cleaners	20
	Tactile Devices	21
	A wide range of product line up	21
	JDX Technology Co.,Ltd.	
	Chip Electrolytic Capacitors	22
	Miniature Aluminum Electrolytic Capacitors	22
	Large Size Aluminum Electrolytic Capacitors	24
	Conductive Polymer Aluminum Solid Capacitors	25
	Conductive Polymer Hybrid Aluminum Electrolytic Capacitors	25
	Conductive Polymer Aluminum Electrolytic Capacitors	26
	High Capacitance Polymer Aluminum Capacitors (SMLC)	26

INDEX

Parts Service	ROHM Co., Ltd	
	ICs	27
	Power Devices	27
	Duscrete Devices	27
	Passive Devices	27
	Opto Devices	27
	Modeules	27
	INTEGRATED Silicon Solution, INC.	
	DRAM Part Decoder	28
	Serial NOR Flash (SPI) Part Decoder	29
	SLC NAND Flash Part Decoder	29
	Puya Semiconductor Co., Ltd.	
	Nor Flash Package Type	30
	EEPROM Package Type	30
	AEM Components, INC.	
	Product Types	31
	Automotive grade SMD products	31
	Bencent Electronics Co., Ltd.	
	ESD	32
	Zener	32
	GDT	33
	TSS	34
	TVS	34
	POLYTRONICS Technology Corp.	
	Over-Current Product	35
	Zhuhai Boya Technology Co., Ltd.	
	SPI NOR Flash	36
	SPI NOR Flash	37
Design Solutions	IOT Oriented Design	38
	Advantages	38
	IOT Showcase	38
	IOT Showcase_by Solution	39
Contact Us	Contact Information	

Brand Line Card

						
	Arlitech	Artery	PANJIT	NIDEC	JDX	ROHM
DRAM						★
FLASH						
EEPROM						★
M0 MCU		★				
M4 MCU		★				★
LED Driver						★
Power Management						★
USB Type-C						★
PFC IC			★			★
PWM IC			★			★
SIC MOS/DIODE			★			★
MOSFET			★			★
IGBT			★			
Resistor						★
Capacitor					★	★
TVS/ESD/Zener			★			★
DC FAN				★		
Motor				★		
Power Inductor	★					
Aluminum Extruded Heat Sink	★					
Thermal Module	★					
Thermal Solution for Intel Server	★					
Thermal Solution for AMD Server	★					
High Thermal Conductivity Die-Casting	★					
Graphene Spray	★					
Thermal Conductivity	★					
Solimatrix FUSE						
Automotive Series FUSE						
GDT						
SPD						
OCP/OVP						

Brand Line Card

						
	ISSI	Puya	AEM	Bencent	POLYTRONICS	BYT
DRAM	★					
FLASH	★	★				
EEPROM		★				
M0 MCU						
M4 MCU						
LED Driver						
Power Management						
USB Type-C						
PFC IC						
PWM IC						
SIC MOS/DIODE						
MOSFET						
IGBT						
Resistor						
Capacitor						
TVS/ESD/Zener				★	★	
DC FAN						
Motor						
Power Inductor						
Aluminum Extruded Heat Sink						
Thermal Module						
Thermal Solution for Intel Server						
Thermal Solution for AMD Server						
High Thermal Conductivity Die-Casting						
Graphene Spray						
Thermal Conductivity						
Solimatrix FUSE						
Automotive Series FUSE			★			★
GDT			★	★	★	
SPD				★		
OCP/OVP					★	

Overall Service Introduction

Active & Passive Component

Arlitech's supply chain combines by Power Inductors, Metal-Oxide Semiconductor Field-Effect Transistor (MOSFET), super capacitors, OVP, OCP, DRAM, amplifier, MCU, flash, and thermal fans. For Power Inductor, we provide shielded winding power chokes, dip inductors, and other types.

ARLITECH

ARTERY

PANJIT
SEMI
CONDUCTOR

JDX

Nidec



Design Solution

Except electronic parts sales, Arlitech also brings in IOT design service helps clients with product developement, solution survey, material study till final production.



SMT Assembly

We can offer more than 6 SMT and assembly line capacity. Our SMT strategic partner factory loactes at Hanoi with capability of more than two-point-sixty-seven trillion chips per month. Customer industries cover by IOT, Digital Meter, PCBA, Main Harness, and Consumer Electronics, etc.



Agent Line Introduction



Artery Technology Corporation

15

Artery Technology (Chongqing) Co., Ltd. was established in 2016. It is a chip (MCU) design company dedicated to promoting the innovation trend of 32-bit microcontrollers in the global market. Technical support branch. Arteli focuses on the R&D and innovation of ARM®Cortex®-M4/M0+ 32-bit microcontrollers. The full range of products adopts 55nm advanced technology and ARM® Cortex®-M4 high-performance or M0+ low-power cores, constantly building higher Performance and competitive MCU products.



PANJIT International Inc.

17

PANJIT is a semiconductor manufacturer founded in 1986. We own IDM design capability and continuously invest packaging miniaturization, wafer capacity expansion, R&D in advanced high power discrete solution and power IC design capability. We are also dedicated to product device development of EV, home appliance, solar power, UPS, energy storage systems and automotive to create much greener and smarter lives for the world.



NIDEC Corporation

19

Nidec Group specializes and handles motor application products based on "everything that spins and moves," centering around a motor business that comprises an expansive product line from small precision to supersized motors.



JDX Technology Co.,Ltd.

22

JDX's professional marketing team combines semiconductor IC components and related electronic circuits. Active IC and passive components (capacitors, inductors, transformers...etc.) system solution sales, our goal is to provide customers with higher-value competitive solutions and products and to improve the quality and price of customers' better products Advantages, rapid delivery, ... and other services to create win-win or multi-win business opportunities.

The main production items include:

- Low-voltage power capacitors and low-voltage power reactors are the main component.
- A full range of aluminum electrolytic capacitors, the exporter of aluminum electrolytic capacitor design and process technology.

Agent Line Introduction



ROHM Co., Ltd

27

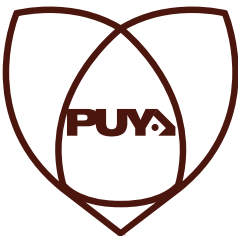
ROHM was established in Kyoto in 1958 as initially a manufacturer of small electronic components. In 1967 production was expanded to include transistors and diodes, and ICs and other semiconductor products were added into product line from 1969.



INTEGRATED Silicon Solution, INC.

28

ISSI is a technology leader that designs, develops, and markets high performance integrated circuits for the following key markets: automotive, communications, digital consumer, and industrial and medical. Our primary products are high speed and low power SRAM and low and medium density DRAM. The Company also designs and markets NOR flash products and high performance analog and mixed signal integrated circuits.



Puya Semiconductor Co., Ltd.

30

Puya Semiconductor (Shanghai) Co., Ltd. is a supplier of low power SPI NOR Flash memory ICs and high reliability EEPORM memory ICs. As a technology innovator, Puya leverages state-of-the-art design and process advantage with leading foundries to develop 28-55nm high performance and high reliability SPI flash memories for conventional consumer, industrial markets and automotive as well as emerging applications. We also produces very competitive die size and performance advantage the flash memories are also ideal for MCP of SOC and MCU.



AEM Components, INC.

31

AEM is committed to the research, development, manufacturing and distribution of circuit protection components. We are well-known in the industry for providing the most extensive and comprehensive surface mount fuse lines and ESD protection. Our products, include SolidMatrix® SMD fuse, GcDiode® ultra low capacitance ESD Suppressors, AirMatrix® SMD fuse, multilayer varistors, ferrite beads, and inductors.

Agent Line Introduction



Bencent Electronics Co., Ltd.

32

Shenzhen Bencent Electronics Co., Ltd was established in 1999. With 17 years focus on development, production and distribution of GDT, TSS, TVS, ESD and compound component. The application portfolios include communication, security, consuming electronics, industrial, surge protection device (SPD), medical electronics, automotive electronics and alternative energy.



POLYTRONICS Technology Corp.

35

Polytronics Technology Corporation (PTTC) designs, develops and manufactures circuit protection devices that ensure the safety and reliability of today's high density electronics systems. Product families include surface-mount devices (SMDs), radial-leaded devices (RLDs), axial-leaded devices (ALDs) and many other custom-designed products. Industry applications included Computers, Peripherals, General Electronics, Batteries, Telecommunications systems, etc.

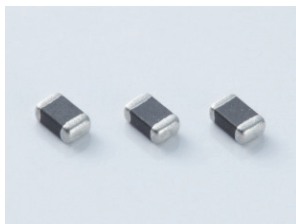


Zhuhai Boya Technology Co., Ltd.

36

ZHUHAI BOYA TECHNOLOGY CO., LTD settled in Zhuhai New-high Technology Industrial Zone in December 2014 which has a senior team concentrated on advanced flash memory research and development. BOYA insist to achieve the dream of China chips. Our team familiar with the industry chain and master the core technology of the memory chip design. In the memory research, we are in the leading domestic level.

High Current Power Inductors



AMPI_CN Series

201610



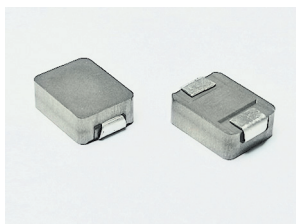
AMPI_ED Series

0420/0530/0612/0618/0624/
0630/1040



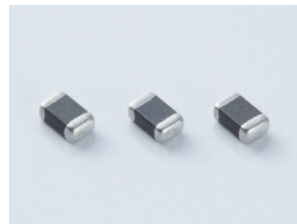
AMPI_EL_A Series

0420/0603/1265



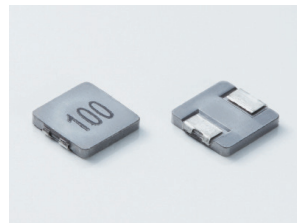
AMPI_Vcore Series

100740/095640/0630/0640/
0530/0420



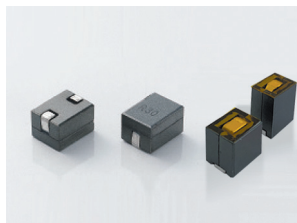
AMPI_EC Series

201610/252010/252012



AMPI_ECH Series

0410/0610



AHCI Series

106580/100807/100808/
117575/090608/100609L/
100612L

SMD Power Inductors



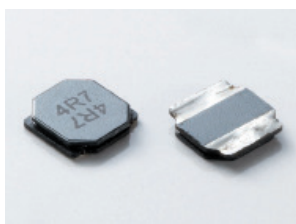
AQH_MK Series

201610/201612/252010/
252012



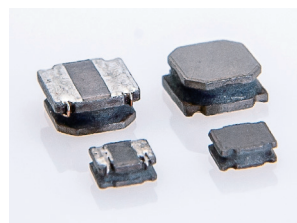
ATNR Series

3010/4010/4018/5010/5012/
6010/6012/6020/8040/5D20/
6D28/7D15



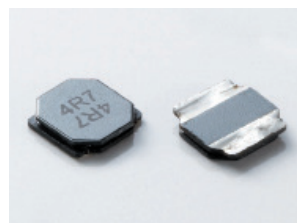
ATNR_MH Series

3010/3012/4010/4012/4018/
5010/5020/6010/6012/6028



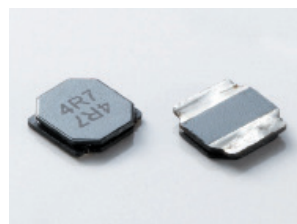
AHNR Series

201610/252010/252012/
3012/3015/4020



ATNR_M Series

3010/3012/3015/4010/4012/
4018/4030/5010/5040/6010/
6012/6020/6045/8040



ATNR_MA Series

3010/3015/4012/4018/5020/
5040/6020/6028/6045/8040

SMD Power Inductors



AGPI Series

3D16/4D18/4D28/5012/
5D18/5D28/6012/6D28/
6D38/7D15/7D18/7D25/
7D28/8D43/10D15/10D25



ATPI_HF Series

0315/0302/0403/0504/
0703/0705/1006



ASPI Series

0703/0704/1204/1205/
1207



APIW Series

3308/3316/3340/5022



ATPI Series

0302/0403/0504/0703/
0705/1005



AFPI Series

1003/1004/1005



ASPI_WE Series

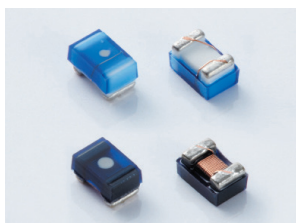
0603/0605/0703/0704/
1204/1205/1207/1209



APIR Series

3316/5022

RF Inductors



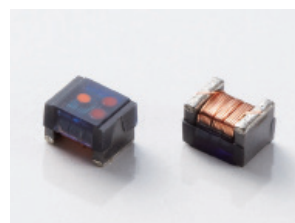
AOI Series

1005/1608/2012/2520/3225



AIGC Series

160808/201210/201610/
252010/252012



AOIC Series

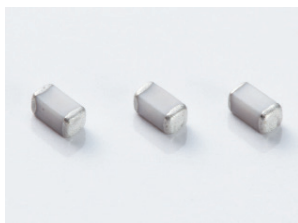
1610/2012/2520/3225



AIG Series

1608/2012

RF Inductors



AIF_L Series

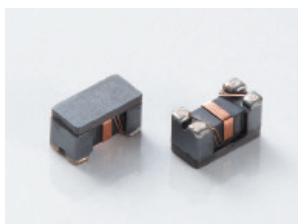
1005/1608



ARI Series

B02/B03

EMI Suppression Filters



ATCM Series

2012/3216



ATCM_HDMI Series

2012



AMB Series

1005/1608/2012



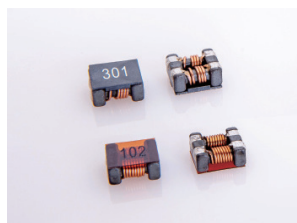
AMC Series

1005/1608/2012



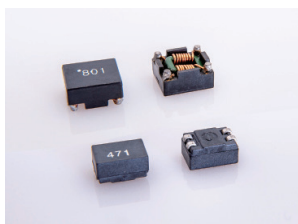
AFIN Series

080630/100850/121060



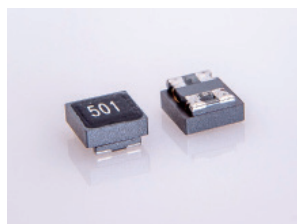
ALCM Series

050520/070640/090750/
090770/121190/131160/
151360



ARCM Series

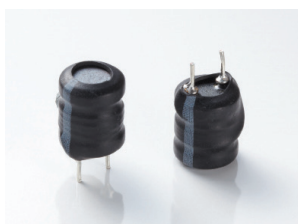
090650/100850



AXCM Series

050530/050550

DIP Power Inductors

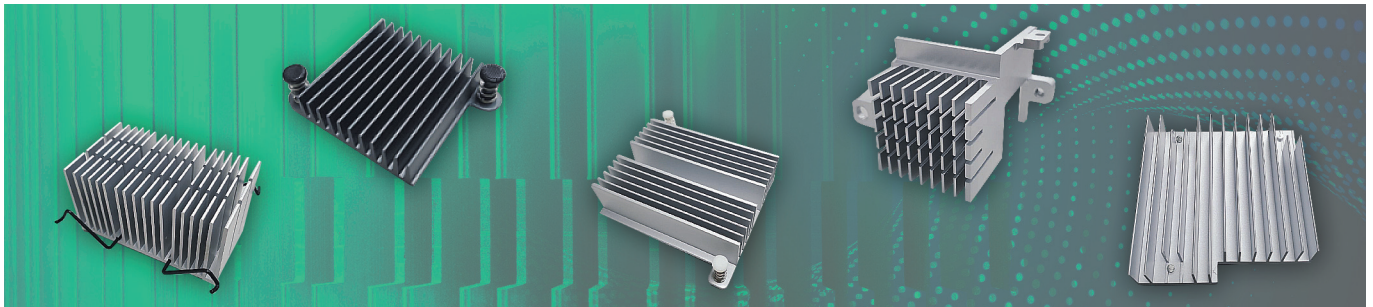


ADR Series

0406/0608/0810/0912

Aluminum Extruded Heat Sink

(Note: Can provide customized size and shape according to customer needs)



- ▶ **Directions:** It is currently the most common product design method. It can be made into complex shapes, the mold is relatively low cost and the construction method is mature and stable
- ▶ **Product Performance:** AL6063 material used, thermal conductivity 210 (W/m.K)
- ▶ **Surface treatment:** Blasting / Anodizing / Graphene Coating

Thermal Module Products

The temperature uniformity of the radiator has a great influence on the heat dissipation performance, and a good temperature uniformity medium is required to achieve it. It is often used in large-size radiators and the common temperature equalization methods are welding VC and Heat Pipe.



Solution for Intel Series



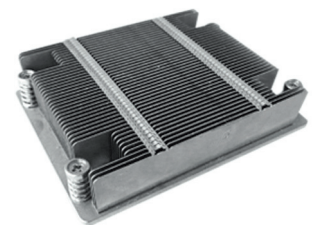
LGA 1150/1151/1156

Program	1U_Passive
TDP(W)	95
Dimension(mm)	L90xW90xH26
material	AL_Base+HeatPipe+AL_Fin



LGA 1150/1151/1156

Program	1U_Passive
TDP(W)	95
Dimension(mm)	L90xW90xH27
material	AL_Base+HeatPipe+AL_Fin



LGA 2011

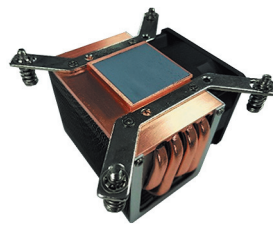
Program	1U_Passive
TDP(W)	95
Dimension(mm)	L104xW80xH27
material	AL_Base+HeatPipe+AL_Fin



LGA 2011

Program	2U_Active
TDP(W)	95
Dimension(mm)	Ø102.5xH61.5
material	AL_Base+Fan

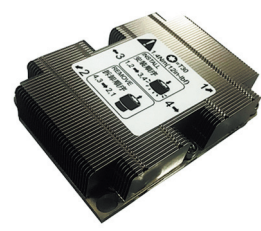
Fan	
Dimension(mm)	Ø92x25
Speed(RPM)	800~3500
Speed Control	PWM
Air Flow(CFM)	59.84
Acoustic Noise(dB)	21~44
Voltage(VDC)	11.4~12.6
Current(A)	0.1~0.38
Bearing	Two Ball
Life(Hour)	70000/40°C
Fan Connector	4pin



LGA 2011

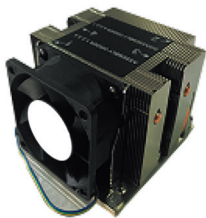
Program	2U_Active
TDP(W)	130
Dimension(mm)	L93.5xW93.5xH65
material	CU_Base+HeatPipe+ AL_Fin+Fan

Fan	
Dimension(mm)	60x25
Speed(RPM)	2500~6800
Speed Control	PWM
Air Flow(CFM)	39.84
Acoustic Noise(dB)	21~44
Voltage(VDC)	11.4~12.6
Current(A)	0.1~0.38
Bearing	Two Ball
Life(Hour)	70000/40°C
Fan Connector	4pin



LGA 3647_Purley

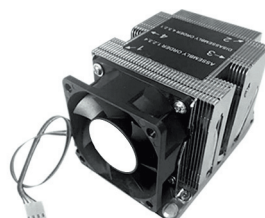
Program	1U_Passive
TDP(W)	145
Dimension(mm)	L108xW78xH26
material	CU_Base+HeatPipe+ AL_Fin



LGA 3647_Purley

Program	2U_Active
TDP(W)	205
Dimension(mm)	L97xW88xH65
material	CU_Base+HeatPipe+ AL_Fin+Fan

Fan	
Dimension(mm)	60x25
Speed(RPM)	2500~6800
Speed Control	PWM
Air Flow(CFM)	34.12
Acoustic Noise(dB)	21~44
Voltage(VDC)	11.4~12.6
Current(A)	0.1~0.5
Bearing	Two Ball
Life(Hour)	70000/40°C
Fan Connector	4pin



LGA 3647_Purley

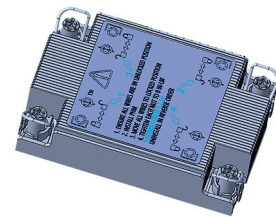
Program	2U_Active
TDP(W)	205
Dimension(mm)	L118xW78xH65
material	CU_Base+HeatPipe+ AL_Fin+Fan

Fan	
Dimension(mm)	60x25
Speed(RPM)	2500~6800
Speed Control	PWM
Air Flow(CFM)	34.12
Acoustic Noise(dB)	21~44
Voltage(VDC)	11.4~12.6
Current(A)	0.1~0.5
Bearing	Two Ball
Life(Hour)	70000/40°C
Fan Connector	4pin



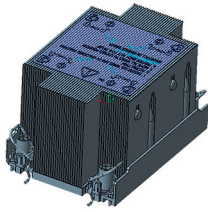
LGA 3647_Purley

Program	2U_Passive
TDP(W)	205
Dimension(mm)	L108xW78xH64
material	CU_Base+HeatPipe+ AL_Fin



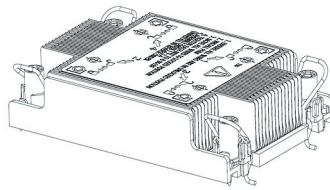
LGA 4189_Whitley

Program	1U_Passive
TDP(W)	165
Dimension(mm)	L113xW78xH25
material	CU_Base+HeatPipe+ AL_Fin



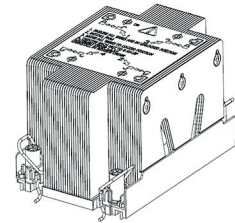
LGA 4189_Whitley

Program	2U_Passive
TDP(W)	205
Dimension(mm)	L113xW79xH64
material	CU_Base+HeatPipe+ AL_Fin



LGA 4677_Eagle Stream

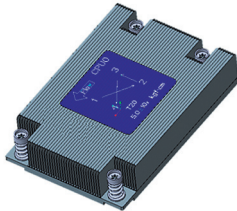
Program	1U_Passive
TDP(W)	300
Dimension(mm)	L118xW78xH24.8
material	CU_Base+HeatPipe+ AL_Fin



LGA 4677_Eagle Stream

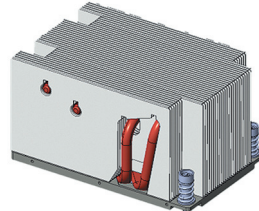
Program	2U_Passive
TDP(W)	350
Dimension(mm)	L118xW78xH64
material	CU_Base+HeatPipe+ AL_Fin

Solution for AMD Series



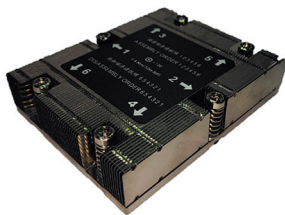
Socket SP3

Program	1U_Passive
TDP(W)	205
Dimension(mm)	L120xW82xH24
material	CU_Base+HeatPipe+ AL_Fin



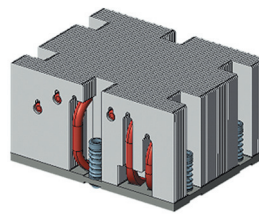
Socket SP3

Program	2U_Passive
TDP(W)	250
Dimension(mm)	L119.3xW78.4xH64
material	CU_Base+HeatPipe+ AL_Fin



Socket SP5

Program	1U_Passive
TDP(W)	400
Dimension(mm)	L118xW92.4xH25
material	CU_Base+HeatPipe+ AL_Fin



Socket SP5

Program	2U_Passive
TDP(W)	400
Dimension(mm)	L118xW92.4xH63
material	CU_Base+HeatPipe+ AL_Fin

High Thermal Conductivity Die-Casting Product

- Directions: Compared with the general ADC12 material, the new material has higher thermal conductivity
- Material : Electrophoresis / graphene Coating
- Surface treatment: Electrophoresis / Graphene Coating

New Material

Density (g/cm ³)	2.7
Thermal Conductivity (W/m·K)	176
Tensile Strength (Mpa)	280-305
Yield Strength (Mpa)	115-130
Elongation (%)	4.5-8

ADC12

Density (g/cm ³)	2.7
Thermal Conductivity (W/m·K)	176
Tensile Strength (Mpa)	320-360
Yield Strength (Mpa)	140-155
Elongation (%)	4-7

Graphene Spray Product Introduction

Thinner and Shorter

The same heat dissipation performance, adding nano-carbon radiator Height and weight can be reduced by more than 60%

Better Heat Dissipation

When the traditional radiator has the same volume, nano-carbon coating The strong radiation heat dissipation capacity of the layer improves the Cooling efficiency

More Cost-effective

The same heat dissipation performance, adding Graphene Spray can be more cost-effective

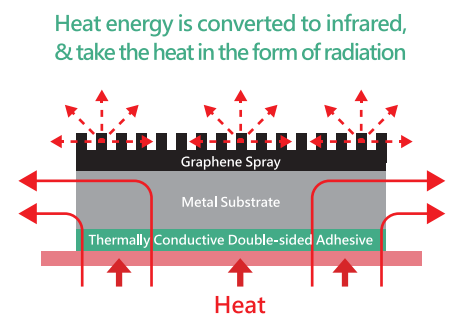
Greener and More Environmentally Friendly

Products are environmentally friendly and take a sustainable development route



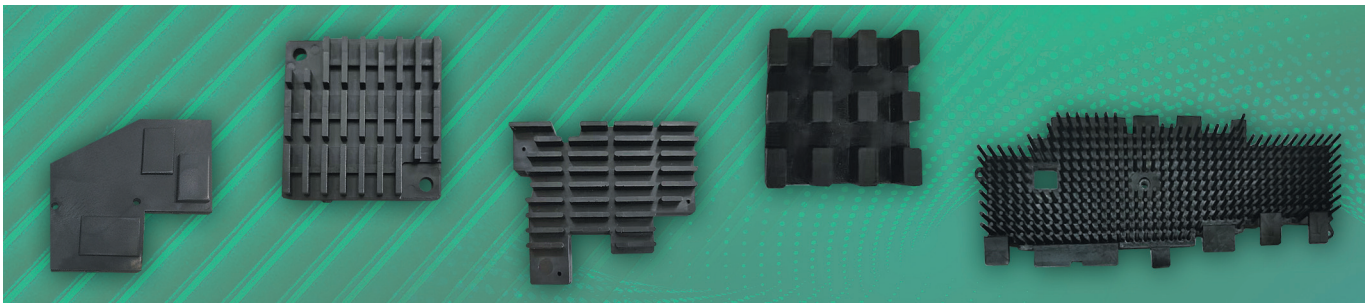
Heat radiation performance comparison

	Aluminum extrusion	Anodized black	Graphene Spray (single side)	Graphene Spray (both side)
Size(mm)	60×60×2.3	60×60×2.3	60×60×2.3	60×60×2.3
Heater	10×10 5W	10×10 5W	10× 10 5W	10×10 5W
Steady State Temperature Rise (°C)	65.7	56.3	55.9	52



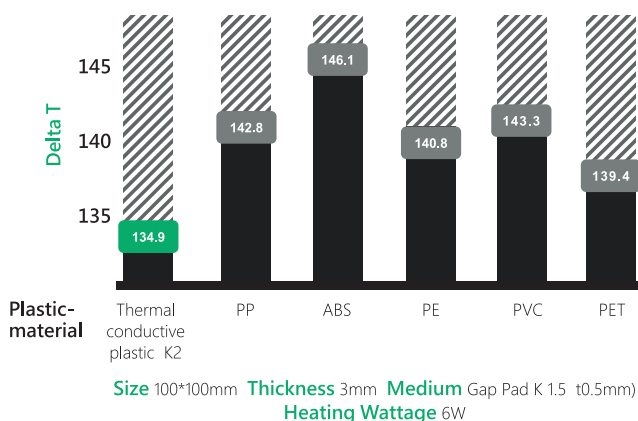
Thermal Conductive Plastic

(Note: Can provide customized size and shape according to customer needs)

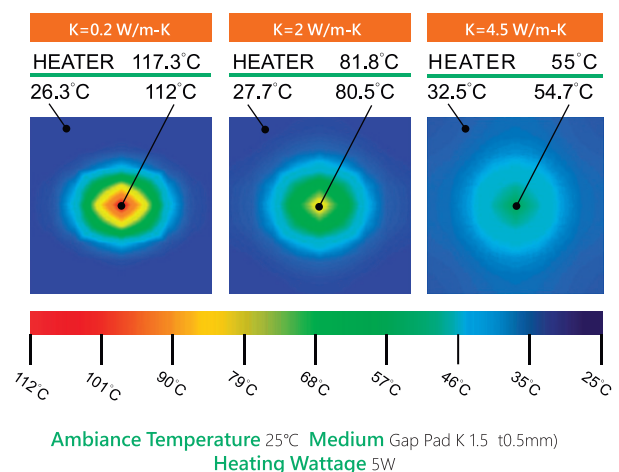


► Directions: By adding high thermal conductivity materials, it can be modulated to have higher thermal conductivity coefficient than ordinary plastic parts, and it can have design flexibility equivalent to ordinary plastics.

Thermal Conductive Plastic VS Normal Plastic Thermal Performance Comparison

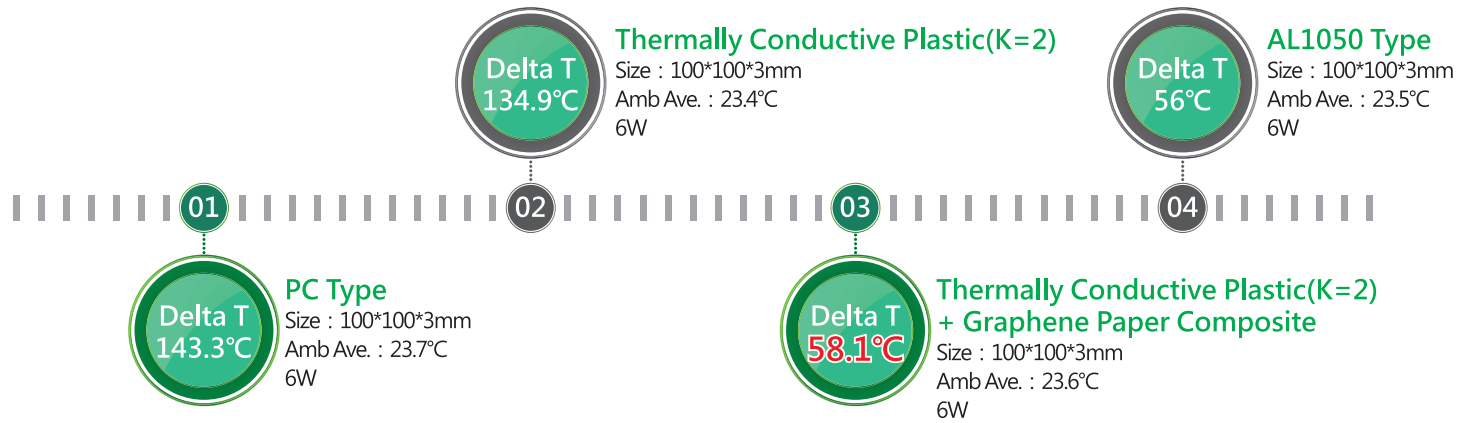


Comparison of the effect of thermal conductive plastic on the improvement of thermal conductivity



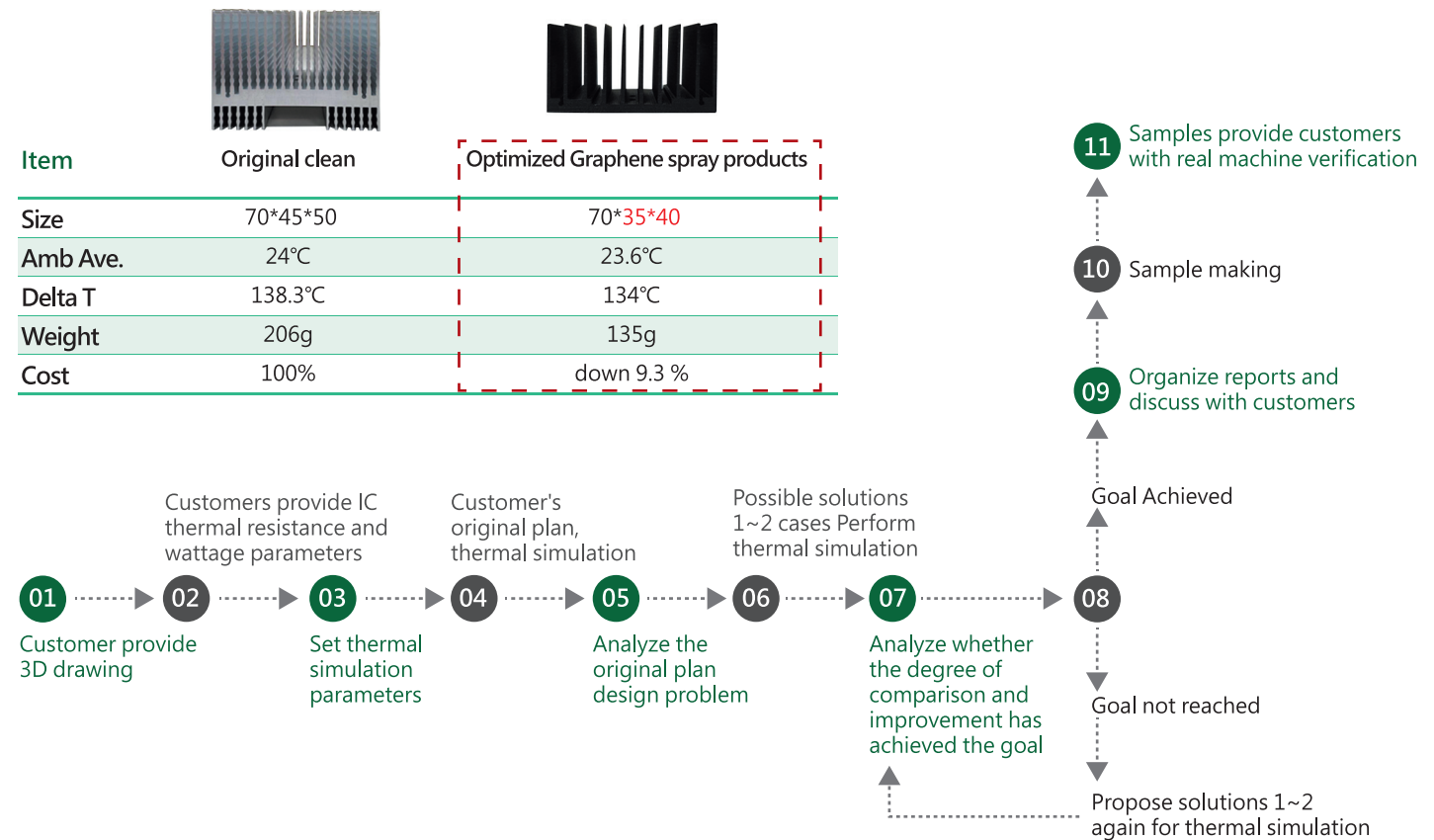
Measured temperature

Thermal conductive plastic will not cause EMI interference and has a high heat dissipation effect close to metal through the combination of graphene composites.



Thermal Simulation

In the early stage of development, preliminary scheme design can be carried out through simulation software, which can effectively shorten the development process and reduce development costs.

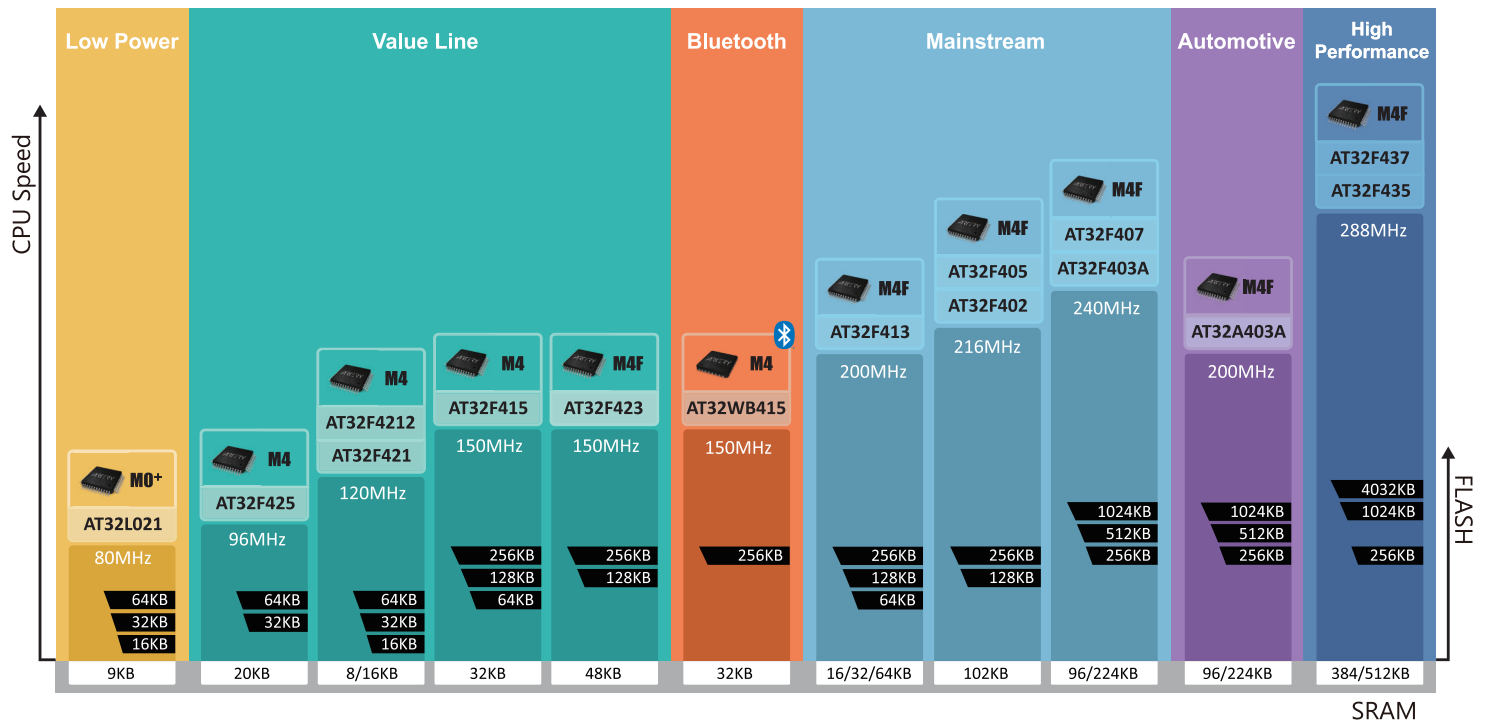




AT32 MCU

- AEC-Q100 Automotive Qualification
- IEC 60730 Appliance Safety Standard

- Bluetooth SIG Bluetooth BQB Certification
- Industrial-grade Chip Operating Temperature Range



Industry Application (Medical / Communication / New Energy)

- Blood pressure monitor/4G-5G base station/Photovoltaic



Industrial/Motor Control

- Motor/DTU/Electric vehicle controller



Smart Home

- Smart dimmer/Washing machine/Sweeping robot



Consumer/Commercial Applications

- 3-axis stabilizer/Gaming headset/Robot



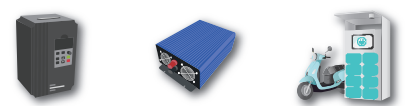
Automotive

- OBDII/Car trunk control/ADAS



Power Management

- VFD/Inverter/Charging Station



ARM® Cortex®-M4 & M0+

32 MCU High Performance, High Stability & Low Power

Low Power

M0+ AT32L021

- Cortex®-M0+ Core
- 80MHz CPU
- 64KB Flash, 8+1KB SRAM
- 4xUART, CAN, ADC

Bluetooth

M4 AT32WB415

- Cortex®-M4 Core
- 150MHz CPU
- 256KB Flash, 32KB SRAM
- OTG, CAN, 4xUART, 2xCMP
- BT 5.0 dual mode



High Performance

M4F AT32F435

- Cortex®-M4F Core
- 288MHz CPU
- 4032KB Flash, 512KB SRAM
- 2xOTG, 2xCAN, 8xUART
- 3x5.33Mps ADC
- 2xQSPI, SDRAM

M4F AT32F437

- Cortex®-M4F Core
- 288MHz CPU
- 4032KB Flash, 512KB SRAM
- 2xOTG, 2xCAN, 8xUART
- 3x5.33Mps ADC, EMAC
- 2xQSPI, SDRAM

Automotive

M4F AT32A403A

- Cortex®-M4F Core
- 200MHz CPU
- 1024KB Flash, 224KB SRAM
- 2xCAN, 8xUART, USB, XMC
- AEC-Q100 Grade 2

Mainstream

M4F AT32F402

- Cortex®-M4F Core
- 216MHz CPU
- 256KB Flash, 96+6KB SRAM
- OTG, QSPI, 8xUART

M4F AT32F405

- Cortex®-M4F Core
- 216MHz CPU
- 256KB Flash, 96+6KB SRAM
- QSPI, 8xUART
- HS+FS OTG with PHY

M4F AT32F413

- Cortex®-M4F Core
- 200MHz CPU
- 256KB Flash, 64KB SRAM
- 2xADC, 2xCAN, USB

M4F AT32F407

- Cortex®-M4F Core
- 240MHz CPU
- 1024KB Flash, 224KB SRAM
- 2xCAN, 8xUART, USB, EMAC

M4F AT32F403A

- Cortex®-M4F Core
- 240MHz CPU
- 1024KB Flash, 224KB SRAM
- 2xCAN, 8xUART, USB, XMC

Value Line

M4 AT32F425

- Cortex®-M4 Core
- 96MHz CPU
- 64KB Flash, 20KB SRAM
- OTG, CAN, 4xUART

M4 AT32F421

- Cortex®-M4 Core
- 120MHz CPU
- 64KB Flash, 16KB SRAM
- CMP, ADC, 2xUART

M4 AT32F4212

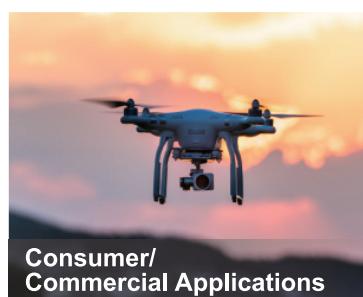
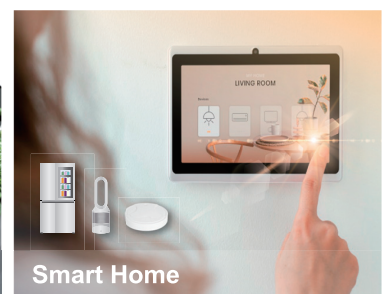
- Cortex®-M4 Core
- 120MHz CPU
- 64KB Flash, 16KB SRAM
- CMP, ADC, 2xUART, 2xOPA

M4 AT32F415

- Cortex®-M4 Core
- 150MHz CPU
- 256KB Flash, 32KB SRAM
- OTG, 2xCMP, CAN


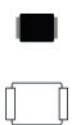
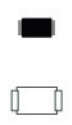



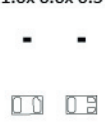
M4F AT32F423

- Cortex®-M4F Core
- 150MHz CPU
- 256KB Flash, 48KB SRAM
- OTG, 2xDAC, 2xCAN
- 24ch 5.33Mps ADC



Existing Portfolio	Diodes	Transistor	SiC Devices	Technology Innovation	Diodes	MOSFET	IGBT	SiC Devices
	Rectifiers Schottky (20-200V) ESD Arrays ($\geq 0.2\text{pF}$) TVS ($\leq 6.6\text{kW}$) Zener ($\leq 5\text{W}$) FRED (600-1200V) Power Bridge	Small Signal MOSFET Power MOSFET General BJT Low Vce(sat) BJT	SiC Diode (650-1200V)		FRED (650-1700V) Ultra LVF Power Bridge	SGT MOSFET (40-120V) SJ MOSFET (600-800V)	FS Trench IGBT (650-1700V)	SiC Diode (650V-1700V) SiC MOSFET (650V-1200V)

Surface Mount Type Package Outline

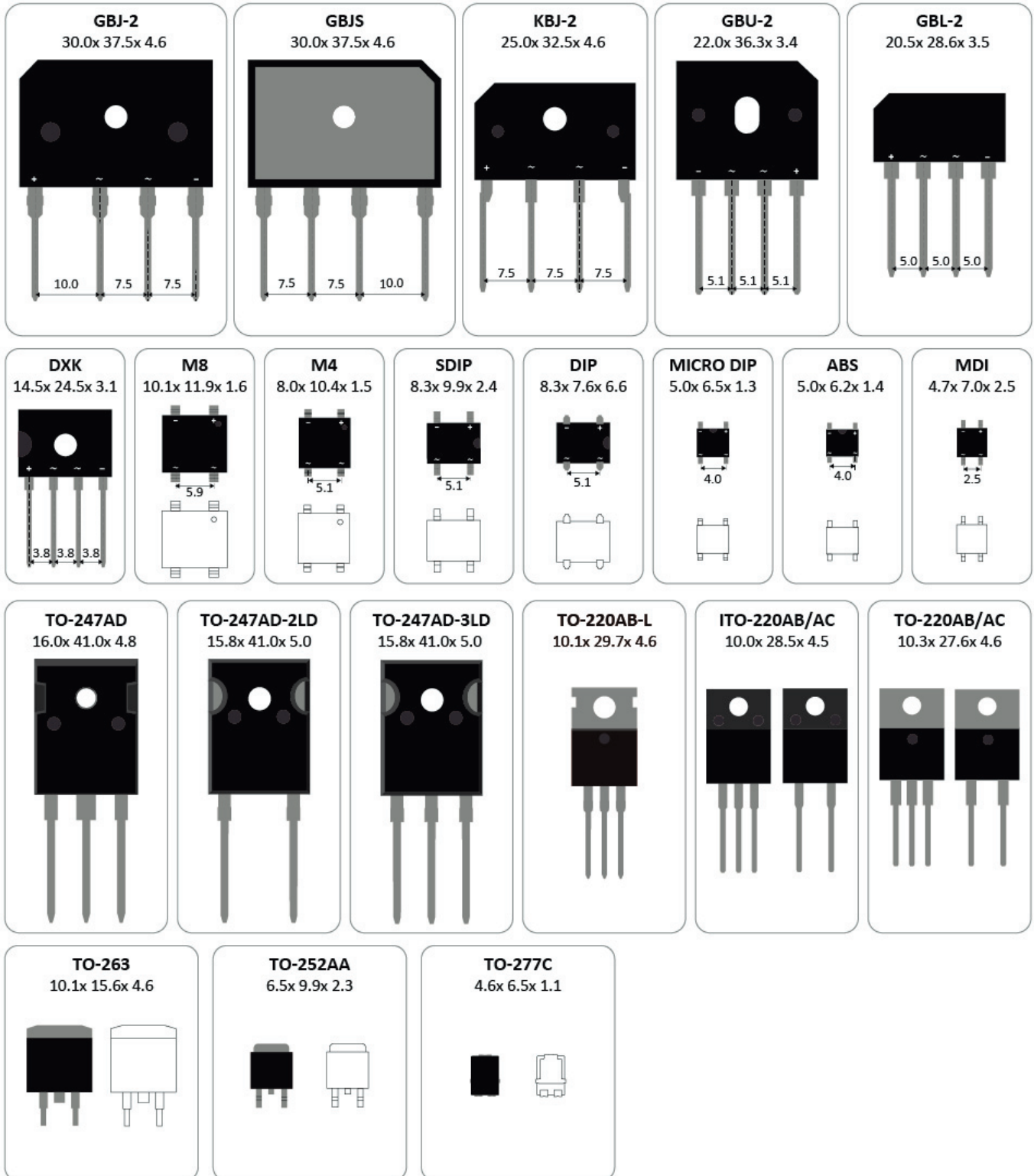
DO-218AB 15.5x 10.0x 4.9 	SMC 7.9x 5.9x 2.3 	SMB 5.3x 3.6x 2.3 	SMBF 5.3x 3.6x 1.0 	SMA 5.0x 2.7x 2.2 	SMAF-C 4.7x 2.5x 1.0 	SOT-223 6.5x 7.0x 1.6 
SOP-8 4.9x 6.0x 1.7 	SOT-89 4.5x 4.3x 1.5 	SOT-23 5L / 6L 2.9x 2.8x 1.45 	SOT-23 2.9x 2.4x 1.0 	SOT-323/ 353/ 363 2.0x 2.1x 1.0 	SOT-523/ 553 /563 1.6x 1.6x 0.55 	SOT-723 1.2x 1.2x 0.5 
SOD-123 3.8x 1.6x 1.2 	SOD-123FL 3.6x 1.8x 1.0 	SOD-123HE 3.7x 1.8x 0.9 	SOD-323HE 2.5x 1.3x 0.7 	SOD-323 2.5x 1.3x 0.8 	SOD-523 1.6x 0.8x 0.6 	SOD-923 1.0x 0.6x 0.4 
DFN5060-8L / DFN5060B-8L 5.0x 6.0x 1.0 	DFN3333-8L / DFN3333B-8L 3.3x 3.3x 0.8 	DFN2020-6L / DFN2020B-6L 2.0x 2.0x 0.8 	DFN1010B-6L 1.0x 1.0x 0.4 	DFN1006-2L / DFN1006-3L 1.0x 0.6x 0.5 	DFN0603-2L 0.6x 0.3x 0.3 	DFN3810-9L 3.8x 1.0x 0.5 
DFN2510-10L 2.5x 1.0x 0.5 	TO-277C 4.6x 6.5x 1.1 	TO-252AA 6.5x 9.9x 2.3 	TO-263 10.1x 15.6x 4.6 			
DSN1608 1.6x 0.8x 0.3 	DSN1006 1.0x 0.6x 0.3 	DSN0603 0.6x 0.3x 0.15 	DSN0402 0.4x 0.2x 0.15 			

Unit:mm

PANJIT International Inc.

PANJIT
SEMI
CONDUCTOR

Power Package Outline



Unit:mm

Medium- and large-size motors



Induction (asynchronous) motors



Synchronous motors



Brushless DC motors



Servo motors



Pump motors



Medium and high voltage motors



Robotics motors

Small-size and precision motors



Brushless DC motors



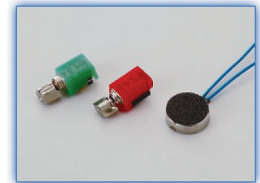
Geared motors



Coreless motors



Polygon laser scanners



Tactile devices



Synchronous motors



Stepping motors



Solenoid



Fans & Blowers

Mold, molding, cutting, and machining components



Mold unit design & production



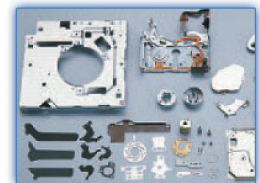
Gears



Precision molding components



Cutting components



Press-machined product



Mold



Prototype / Tool



Precision Cutting Tools

NIDEC Corporation



Charger

Nidec offers a wide range of different products in its EV Charging portfolio in order to realize solutions perfectly tailored to the charging scenario for the customer. Our Direct Power DC Fast Charging solution is ready for current and upcoming EV's, which can be charged in less than 15 minutes with a charging power up to 360kW. The 2x22kW Direct Power AC is a charging station that can be connected to the grid and also to any EV management system due to its wide range of communication protocols. The different AC Wallbox versions can additionally be combined for fleet management or home applications. Altogether it could be combined with an operating and/or load management software running on Nidec SCI (Smart Charging Interface)



Air Purifier / Electric Fan



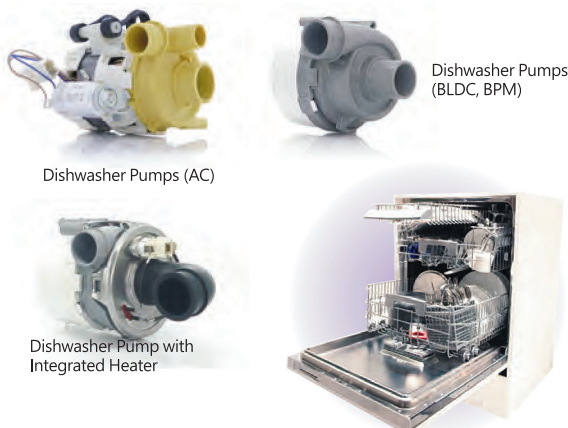
Washers/Dryers

Full support to customers including expertise in motors and electronic drives and a worldwide network to serve every country. Nidec provides a full range of motors, specially designed for dishwashers, washing machines, and dryers, which achieve the most advanced efficiency classes, standards, and new regulations. With an extreme energy efficiency level, Nidec motors have a smaller size, lower noise and vibration, and less environmental impact. Designed ahead of European regulations on energy labeling, the motors stand out for their robust design.



Dishwashers

Nidec motorpumps for dishwashers are the result of deep knowledge and optimization in both electro-mechanic and hydraulic components. Outstanding results in vibration and noise performance are obtained thanks to optimization of magnetic configuration, allowing Nidec customers to achieve silent operation and low consumptions. Integration of heater is an available option.



BLDC Motors



Vacuum Cleaners

BLDC motor characteristic such as small, light-weight and high efficiency, completely meets the cleaner needs to be robotic cleaner and cordless cleaner (recent stick type cleaner), and it makes the cleaner performance much better.

For Robot Cleaner



For High-Power Vacuum Cleaner



Tactile Devices

WONDER SENSE

WONDER SENSE is a generic brand name of Nidec tactile technology.

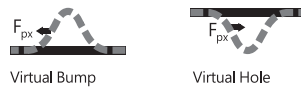
Our Tactile devices creates realistic sense of touch on devices such as smartphones, smart watches and PC with its excellent vibration characteristics. We provide wide variations of devices for design flexibility of our customers.



Physical Surfaces



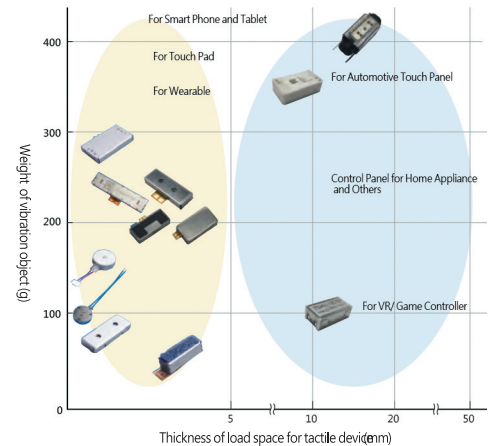
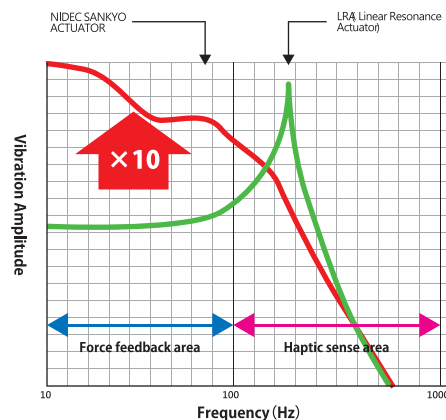
Virtual Surfaces



A wide range of product line up

Nidec group can provide tactile for a wide range of devices used such as;

- Wearable, Smart phone and tablets, which requires "delicate sense"
- Touch panel for automotive
- VR/Game and others which require large feedback.



Name of Product	Smart Phone / Wearable											Game / Panel						
	Sprinter A	Sprinter D	Sprinter X	Sprinter α	Sprinter β	Sprinter γ	Sprinter Z0825A	Sprinter Z	Sprinter Z1040	HPD	TDA112C07	J0000K21	CA3	CA7-VH5	CA7-VH9	TDA113C08	TDA111C12	SPEAR
Size	2.5t × 6.0w 25.0L	3.0t × 7.0w 20.0L	2.6t × 6.0w 16.0L	3.0t × 11.3w 20.0L	3.1t × 7.4w 16.8L	3.8t × 8.0w 15.0L	φ 8.0 × H2.5	3.5t × 4.0w 12.0L	φ 10 × 4t	φ 8.0 × H2.5	6.4t × 14.6w 24.8L	2.0t × 8.0w 15.0L	φ 3.0 × H10.7	φ 6.55 × H5.0	φ 6.55 × H8.8	10.3t × 16.1w 30.4L	12.8t × 23w 42L	15t × 15.0w 35L
Frequency(F0)	150Hz	180Hz	190Hz	175Hz	200Hz	150Hz	240Hz	230Hz	170Hz	235Hz	1Hz~1KHz (No resonance)	190Hz	190Hz~170Hz		150Hz	1Hz~1KHz (No resonance)	120Hz	150Hz
Amount of Vibration (100g)	2.4Grms	2.4Grms	1.6Grms	5.0Grms	2.5Grms	2.5Grms	1.0Grms	1.4Grms	2.2Grms	1.2Grms	0.27Grms (100Hz)	2.5Grms	0.125Grms	0.35Grms	0.625Grms	0.9Grms (120Hz)	4Grms	10Grms

WONDER SENSE logo is a trademark of Nidec Corporation in Japan, the United States and/or certain other countries.

JDX Technology Co.,Ltd.



Chip Electrolytic Capacitors

Dissipation Factor at 120Hz, 20°C (tan δ max)



JDRVT Series

W.V.	6.3	10	16	25	35	50	63	100
(tan δ max)	0.3	0.24	0.2	0.18	0.16	0.14	0.12	0.10



JDRVH Series

W.V.	10	16	25	35	50
(tan δ max)	0.24	0.2	0.18	0.16	0.14



JDRVN Series

W.V.	6.3	10	16	25	35	50
(tan δ max)	0.35	0.26	0.24	0.2	0.18	0.18



JDRVK Series

W.V.	6.3	10	16	25	35	50
(tan δ max)	0.3	0.24	0.2	0.18	0.16	0.14



JDRYK Series

W.V.	200	250	400	450
(tan δ max)	0.15	0.15	0.15	0.15

Miniature Aluminum Electrolytic Capacitors

For Switching Power Supply



JDYK Series

105°C 3000Hrs



JDPZ Series

105°C 2000 ~ 3000Hrs High Voltage
Smaller-sized High Ripple Current



JDSXW Series

105°C Voltage Venting Specification



JDFM Series

105°C 4000~6000 Hrs For Switching
Power Supply and LED Drive



JDPB Series

105°C 5000~8000Hrs High Voltage
Smaller-sized High Ripple Current
Long Life



JDAX Series

Ultra Mini at urzed for AC-adapter of
portabe device

Special Type



JDFHX Series

For Photo f lash



JDAF-NP Series

Nom-Polarized, For Audio Equipment

Miniature Aluminum Electrolytic Capacitors

Low Impedance



JDF A Series

105°C 3000Hrs
Low Impedance



JDF LK Series

Ultra High Ripple Current
Low Impedance



JDF K Series

105°C 8000~10000Hrs
Low Impedance, High Reliability



JD F L Series

105°C 2000Hrs
Extremely Low Impedance



JD F D Series

105°C 4000~6000Hrs
Extremely Low Impedance, High Reliability



JD F T Series

125°C 1000~4000Hrs
Low Impedance

Standard Type



JD M P Series

85°C 2000Hrs
General , Standard



JD H M Series

105°C 2000Hrs
General , Standard

Long Life



JD H T Series

105°C 5000Hrs
High Reliability



JD L L E Series

105°C 10000~15000Hrs
High voltage, High Reliability



JD H A Series

125°C 5000Hrs
High Reliability



JD B T Series

125°C 4000Hrs
For Automotive



JD R B Series

105°C 8000~10000Hrs
High voltage, Low Impedance, High Reliability



JD L E X Series

125°C 3000~5000Hrs
High voltage, High Reliability



JD H W Series

130°C 2000Hrs
High Reliability

Screw Terminal Type



JD S T C Series

Screw Terminal Type



JD L T C Series

105°C Screw Terminal Type, Long Life



JD H T C Series

105°C Screw Terminal Type

JDX Technology Co.,Ltd.



Large Size Aluminum Electrolytic Capacitors

Snap-in Type



JDSC Series

Snap-in Terminal Type
85°C Standard



JDHL Series

Snap-in Terminal Type
105°C Long Life



JDAP Series

Snap-in Terminal Type with
Standing Overvoltage



JDHK Series

Snap-in Terminal Type High CV



JDHS Series

Snap-in Terminal Type
105°C Standard



JDYFX Series

Snap-in Terminal Type 20mm High
Wide Temperature Range



JDDQ Series

Snap-in Terminal Type Exhaust type

For Audio Equipment



JDAUDIO Series

Lug / Snap-in Terminal Type
For Audio Equipment

Lug Type Electrolytic Capacitors



JDUD Series

Lug Terminal Type 85°C Standard

For Inverter And Conditioner



JDGK Series

Fuston /Printed Board Terminal
Type For Inverter And Air- Conditioner

For Photo Flash Applications With Lug Terminal



JDFHK Series

Electrolytic capacitors for photo flash
applications with lug terminal

For Rapid Strobe Flash Applications



JD FCD Series

Electrolytic capacitors for rapid strobe
flash applications

Conductive Polymer Aluminum Solid Capacitors

Radial Type



JDAREA Series

105°C 2000H
2.5~16V
Standard



JDAREP Series

105°C 3000H
6.3~35V
Power



JDARHA Series

105 °C 5000H
25V~100V
High Voltage



JDARHE Series

125°C 1000H
2.5~63V
High Endurance



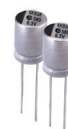
JDARUP Series

125°C 2000H
2.5~63V
Power



JDAREC Series

105°C 2000H
2.5~16V
High Current



JDAR5K Series

105°C 5000H
2.5~16V
Long Life



JDAR5P Series

105°C 5000H
6.3~35V
Power



JDARHT Series

125°C 2000H
25V~63V
High Reliability

SMD Type



JDAVEA Series

105°C 2000H
2.5~25V
Standard



JDAV5K Series

105°C 5000H
2.5~25V
Long Life



JDAVHA Series

105°C 5000H
2.5~100V
High Voltage



JDAVQC Series

125°C 4000H
25~80V
Standard

Conductive Polymer Hybrid Aluminum Electrolytic Capacitors

SMD Type



JDAVMA Series

105°C 10000H
25~80V



JDAVMC Series

125°C 4000H
25~80V

Conductive Polymer Aluminum Electrolytic Capacitors

CAP



JDACAS Series

105°C 2000H
2~25V
Standard



JDACAH Series

105°C 2000H
2~25V
High Capacitance



JDACTH Series

125°C 1000H
2~25V
High Reliability



JDACAL Series

105°C 2000H
2~2.5V

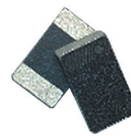
High Capacitance Polymer Aluminum Capacitors (SMC)

Low ESR & High Ripple



JDSMA Series

105°C 2000H
3.5x2.8x1.9mm
7.3x4.3x1.9mm



JDSMT Series

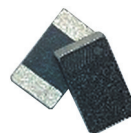
125°C 1000H
3.5x2.8x1.9mm
7.3x4.3x1.9mm

Normal ESR & Ripple



JDSMA Series

105°C 2000H
3.5x2.8x1.9mm
7.3x4.3x1.9mm



JDSMT Series

125°C 1000H
3.5x2.8x1.9mm
7.3x4.3x1.9mm

ICs

Memory

Amplifiers & Linear

Clocks & Timers

Data Converter

Power Management

Motor/Actuator Drivers

LED Drivers

Display Drivers

Sensors & MEMS

Communication LSI

Speech Synthesis LSI

Microcontroller

IC Packages

Power Devices

SiC Schottky Barrier Diodes

SiC MOSFETs

Full SiC Power Modules

IGBT

Intelligent Power Modules

Discrete Devices

Transistors

Diodes

Passive Devices

Conductive Polymer Capacitors

Tantalum Capacitors

Opto Devices

Laser Diodes

Optical Sensors

Modules

Wireless Modules

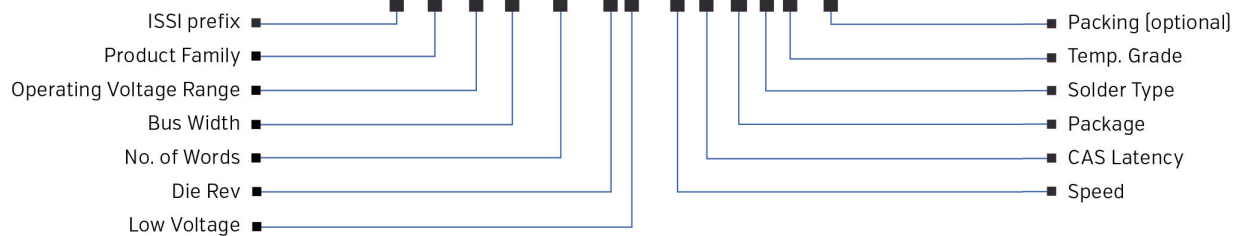
Thermal Printheads



INTEGRATED Silicon Solution, INC.

DRAM Part Decoder

IS 43 TR 8 1280 CL - 107M B L I - TR



■ SDRAM Product Family

- 41 = Asynchronous
- 42 = SDR Commercial/
Industrial grade
- 43 = [LP]DDR/DDR2/DDR3/DDR4
Commercial/Industrial grade
- 45 = SDR Automotive grade
- 46 = [LP]DDR/DDR2/DDR3/DDR4
Automotive grade

■ Operating Voltage Range

Asynchronous: Fast Page & EDO
LV = 3.3V

Synchronous:

High Speed
S = 3.3V SDR
VS = 1.8V SDR
R = 2.5V DDR or 2.5V SDR
DR = DDR2
TR = DDR3
QR = DDR4

■ Low Power

SM/RM/VM = 3.3V/2.5V/1.8V
mobile SDR
LR = 1.8V mobile DDR [LPDDR]
LD = LPDDR2
LQ = LPDDR4

■ Bus Width

8 = x8
16 = x16
32 = x32

■ No. of Words

100 = 1M
200 = 2M
...
128 = 128M
256 = 256M
512 = 512M
K01 or 1024 = 1G

■ Monolithic/Stacked, Ranks

[Blank] = Monolithic,
Single Rank, unless
stated otherwise.
S1 = Stacked, Single Rank
S2 = Stacked, Dual Rank

■ Generation ("Die Rev")

A-Z [1 characters]
EA-EZ [2 characters]
ECC Feature

■ Low Voltage

DDR3
L = Supports 1.35V & 1.5V

LPDDR4

L = Supports only 0.6V
I/O [LPDDR4X]

■ Speed

-7 = up to 143Mhz
-6 = up to 166Mhz
-75E = up to 133Mhz @ CL2 [SDR]
-5 = up to 200Mhz
-37 = up to 266Mhz
-3 = up to 333Mhz
-25 = up to 400Mhz
-187 or -18 = up to 533Mhz
[1066 Data Rate]
-15 = up to 667 Mhz [1333 Data Rate]
-125 = up to 800Mhz [1600 Data Rate]
-107 = up to 933Mhz [1866 Data Rate]
-093 = up to 1066Mhz [2133 Data Rate]
-083 = up to 1200Mhz [2400 Data Rate]
-075 = Up to 1333Mhz [2666 Data Rate]
-068 = Up to 1466Mhz [2933 Data Rate]
-062 = Up to 1600Mhz [3200 Data Rate]

■ CAS Latency

B = 3, C = 4, D = 5, E = 6,
F = 7, G = 8, H = 9, J = 10,
K = 11, L = 12, M = 13, N = 14,
P = 15, R = 16, T = 17, U = 18
V = 19, Y = 21, AA = 22
[Blank for some products, whereas
only specific speed and CAS Latency
combinations exist for others.]

■ Solder Type

[Blank] = Sn/Pb
L = 100% matte Sn for non-BGA
or SnAgCu for BGA

■ Temp. Grade

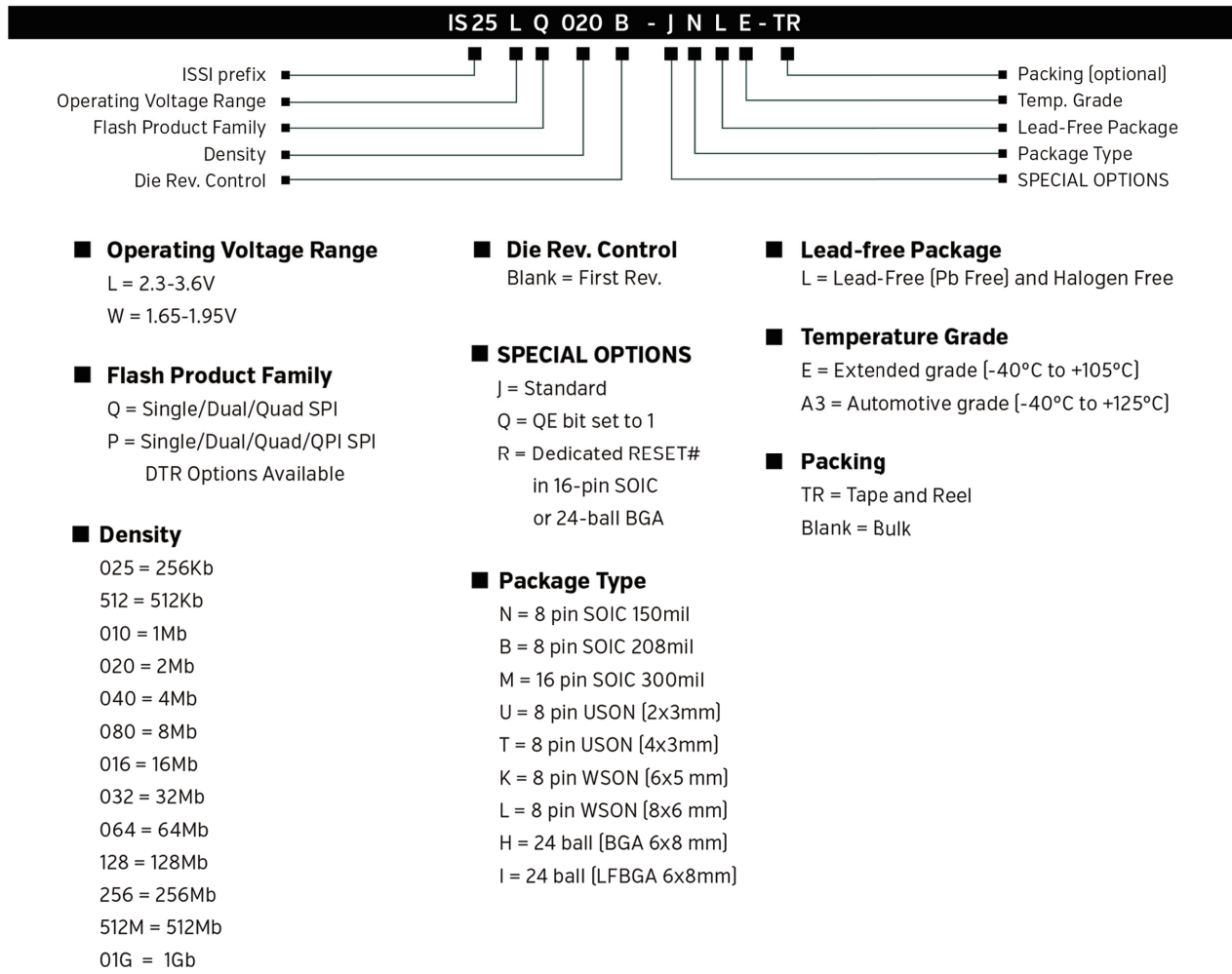
Blank = Commercial Grade [0°C to +70°C]
I = Industrial Grade [-40°C to +85°C]
A1 = Automotive Grade [-40°C to +85°C]
A2 = Automotive Grade [-40°C to +105°C]
A25 = Automotive Grade [-40°C to +115°C]
A3 = Automotive Grade [-40°C to +125°C]
[Ambient or case temperature limits shown
for most products. Refer to specs.]

■ Package Type

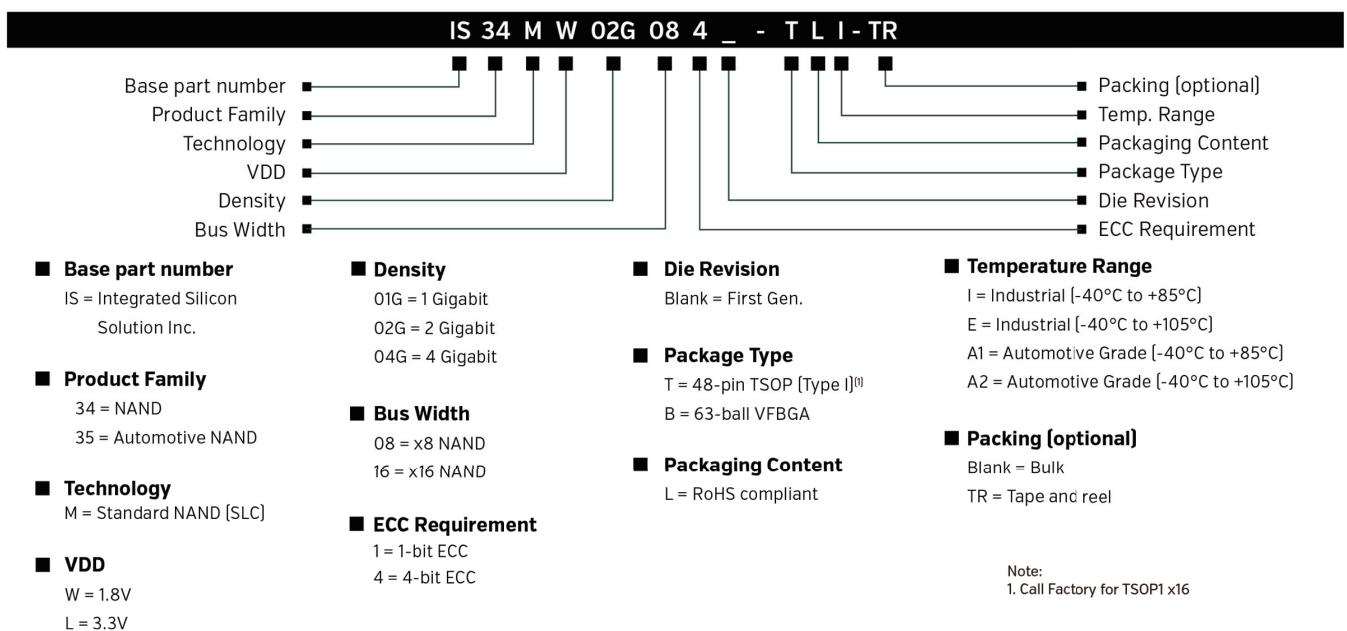
B = BGA
CT = Copper TSOP
T = TSOP
BP = PoP BGA



Serial NOR Flash (SPI) Part Decoder



SLC NAND Flash Part Decoder





Puya Semiconductor Co., Ltd.

Nor Flash Package Type

Density	SOP	PDIP	TSSOP	UDFN	MSOP	SOT23	WLCSP	WLCSP	WLCSP
	150mil	8-lead	8-lead	(2x3)	8-lead	5-lead	4 ball	6ball	8ball
2k	●	●	●	●	-	●	-	●	-
4k	●	●	●	●	-	●	-	●	-
8k	●	●	●	●	-	●	-	●	-
16k	●	●	●	●	-	●	-	●	-
32k	●	●	●	●	●	-	●	-	-
64k	●	●	●	●	●	-	●	-	-
128k	●	●	●	●	●	-	●	-	-
256k	●	●	●	●	●	-	●	●	-
512k	●	●	●	●	●	-	●		●
1M	●	●	●	●	●	-	-	-	●

EEPROM Package Type


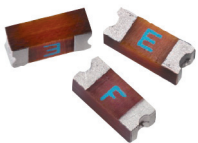
Density	SOP	SOP	TSSOP	USON	USON	USON	USON	WSON	WLCSP
	150mil	208mil	8-lead	(1.5x1.5)	(2x3)	(3x4)	(4x4)	(6x5)	
512Kb	●								-
1Mb	●		●	●	●				●
2Mb	●		●	●	●			●	-
4Mb	●	●	●	●	●		●	●	●
8Mb	●	●	●	-	●			●	●
16Mb	●	●	●	-	●	●		●	●
32Mb	●	●	●	-	●	●	●	●	●
64Mb	●	●	-	-	-	-	●	●	●
128Mb	-	●	-	-	-	-	-	●	●

Product Types

- ▶ Circuit Protective Components
- ▶ SolidMatrix® Surface Mount Chip Fuses
- ▶ Thin Film SMD Fuse
- ▶ AirMatrix® SMD Fuse with 125/250VAC
- ▶ Polymer Resettable SMD Fuses
- ▶ GcDiode® Ultra-low Capacitance ESD Suppressor
- ▶ Multilayer Varistors



Automotive grade SMD products

Technology	Size	Series	Current(A)															
			0.5	0.75	1	1.5	2	2.5	3	4	5	6	7	8	10	12	15	20
 SolidMatrix®	0603	QF0603H																
		QF0603F																
	1206	QF1206H																
		QF1206F																
 AirMatrix®	1206	QA1206F																
	2410	QA2410F																

Bencent Electronics Co., Ltd.



ESD

DFN0603



3.3x3.3x1.0
420V
6kV@10/700μs

DFN1006



0.6x0.3x0.3
3.3V-12V
42W@8/20μs

SOD523



1.6x0.8x0.6
5~24V
50W~300W@8/20μs

DFN1610



1.6x1.0x0.5
3.3V~15V
100W~1800W@8/20μs

DFN2010



2.0x1.0x0.38
3~5V
75W~200W@8/20μs

DFN2020



2.0x2.0x0.55
4.5~24V
2900W~6000W@8/20μs

DFN2510



2.5x1.0x0.58
3.3-5V
100W@8/20μs

SOT523



1.6x1.6x0.75
5V
60W~100W@8/20μs

SOD323



2.5x1.28x1.0
2.5~36V
150W~500W@8/20μs

SOD123



3.7x1.8x1.0
5~220V
200W~400W@10/1000μs

SOT23-3



2.9x2.4x1.0
3.3~36V
60W~400W@8/20μs

SOT143



2.9x2.4x1.0
5V
125W@8/20μs

SOT23-6



3.0x2.8x1.1
3.3-5V
75W@8/20μs

SOP-8



6.0x4.9x1.55
3.3~58V
450W~2700W@8/20μs

Zener

SOD-323



2.5x1.28x1.0
5.1~20V
200mW ±2%

SOD-323



2.5x1.28x1.0
2.4~39V
200mW ±5%

SOD-323



2.5x1.28x1.0
2.4~43V
200mW ±6%

SOD-123



3.6x1.55x1.2
5.1~20V
350mW ±2%

SOD-123



3.6x1.55x1.2
2.4~39V
350mW ±5%

SOD-123



3.6x1.55x1.2
2.4~43V
350mW ±6%

SOT-23



2.9x2.4x1.1
2.4~43V
300mW ±6%

GDT

BS



3.0x1.6x1.6
90~400V
500A@8/20μs

BL



2.9x2.1x1.9
90~400V
500A~1kA@8/20μs

BG



2.9x2.1x1.9
90~600V
150A@10/700μs

BZ



3.2x2.5x2.5
90~800V
1kA@8/20μs

B3A



4.2x2.7x3.9
420V
2kA@8/20μs

BA/BC



4.5x3.2x2.7
75~600V
1kA~3kA@8/20μs

BX



4.2x3.5x3.5
90~400V
3kA@8/20μs

BF



4.2x5.0x5.0
90~1000V
3kA~5kA@8/20μs

BN



5.5x4.0x4.0
70~3600V
3kA~5kA@8/20μs

BJ



5.5x5.0x5.5
90V
5kA~10kA@8/20μs

B3Y



6.8x3.2x2.3
470V
1kA@8/20μs

B3Q



6.8x3.5x3.5
90~420V
2kA~6kA@8/20μs

B3D



7.8x5.0x6.0
75~650V
5kA~10kA@8/20μs

BW



7.0x6.0x6.0
90~3000V
3kA~10kA@8/20μs

BGA



8.0x7.0x2.0
150~800V
500A~1kA@8/20μs

BM



6.0x8.3x8.3
90~800V
10kA~20kA@8/20μs

B5G



Φ5.5x6
70~3600V
3kA~5kA@8/20μs

B8G



Φ8.0x6.0
90~4000V
5kA~20kA@8/20μs

BGO-LB2



Φ5.5x6.0
600V
3kA~5kA@8/20μs

BGO-LC2



Φ8.0x7.0
600~1000V
5kA~10kA@8/20μs

BE-MTW



10.3x8.0x2.3
90~600V
10kA@8/20μs

BE-STW



10.5x8.0x1.6
90~700V
5kA~10kA@8/20μs

BD



16.5x8.3x9.5
1200V
20kA@8/20μs

BU



Φ16x4.6
90~800V
20~120kA@8/20μs

BGO-LF2



Φ21.0x25.0x8.2
1000V
20kA@8/20μs

BMG7D



Φ9.5x13.0x8.0
AC 52~460V
1kA@8/20μs

BMG10D



Φ14.0x17.0x8.6
AC90~400V
2kA@8/20μs

BMG14D



Φ17.5x21.0x8.0
AC90~400V
3kA@8/20μs

BMG20D



Φ22.5x25.0x9.5
AC90~400V
5kA@8/20μs

Bencent Electronics Co., Ltd.



TSS

SOD123



3.6x1.55x1.2
6V
36A@8/20μs

SOT23-5



3.0x2.8x1.25
8~24V
50A@8/20μs

DFN3.3



3.3x3.3x1.0
420V
6kV@10/700μs

SMA



5.25x2.85x2.5
6~400V
4kV@10/700μs

SMB



5.45x3.75x2.6
6V~400V
6kV@10/700μs

SMB-F



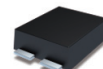
5.4x3.3x2.0
6V~750V
6kV@10/700μs

SMB-T



5.4x3.3x2.0
6V~400V
6kV@10/700μs

SMC-T



8.0x5.9x2.0
6V
3kA@8/20μs

TVS

BVF-D5



1.6x0.8x0.6
5V
12A@8/20μs

SMA



5.25x2.85x2.5
5V~110V
400W

SMB



5.45x3.75x2.6
5V~110V
600W

SMB-T



5.4x3.3x2.0
15~30
200~1000A@8/20μs

BVF-MD2



5.4x3.3x2.0
15~28V
250A~500A@8/20μs

SMC



8.25x6.15x2.95
5V~110V
1500W

SMC-T



8.0x5.9x2.0
18~75V
3000W

5SMD



8.25x6.15x2.95
5V~110V
5000W

SMD



8.25x6.15x2.95
5V~110V
3000W

SMK



10.5x8.2x2.2
15~400V
1kA~3kA@8/20μs

SME



18.3x14.0x7.5
66~86V
10kA@8/20μs

BVS



18.3x14.0x7.5
66~86V
10kA@8/20μs

DO-218AB



15.5x10.0x4.9
10~43V
6600W

DO204AL(DO41)



Φ2.5x5
6.8~440V
400W

DO204AC(DO15)



Φ3.0x7
6.8~600V
600W

DO201AE



Φ5x9
6.8~440V
1500W


R6/P600



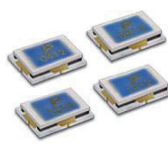
Φ9x9
5~188V
5kW、8kW、15kW

Over-Current Product

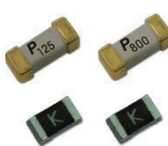
▶ PPTC

Product	Features	Application
	SMD: 0402~2920 series RLD: DC 6V~72V STRAP: DC 6V to 30V , I _{max} 40A to 100A HVR: 250Vac to 600Vac	Computer Multimedia Mobile phone Battery Portable electronics Game console Industrial controls Telephony and broadband

▶ CLM

Product	Features	Application
	DC 62V max voltage and 12A, 15A and 30A Current carrying capacity.	Notebook Cell phone Ultrabook Security systems Tablet PC Automotive applications Printer

▶ FUSE

Product	Features	Application
	DC 35V~50V Interrupting Rating. 1.0A~6.0A Current Rating.	Battery packs Cell phones Chargers DVD players Digital cameras Peripherals LCD monitors and modules Portable device battery PC related equipment Wireless base station Game equipments



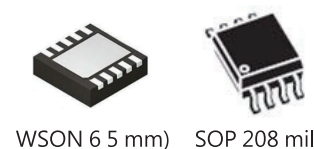
Zhuhai Boya Technology Co., Ltd.

SPI NOR Flash

Item	Specification	Storage Capacity	Packaging
3.3V 32M 150mil	BY25Q32BSTIG(T)	32	SOP8
3.3V 32M 208mil	BY25Q32BSSIG(T)	32	SOP8
3.3V 16M 150mil	BY25Q16BSTIG(T)	16	SOP8
3.3V 16M QPI 208mil	BY25Q16BSSIG(T)	16	SOP8
3.3V 16M 150mil	BY25D16ASTIG(T)	16	SOP8
3.3V 16M 208mil	BY25D16ASSIG(T)	16	SOP8
3.3V 8M 150mil	BY25D80ASTIG(T)	8	SOP8
3.3V 8M 208mil	BY25D80ASSIG(T)	8	SOP8

BY25Q32BS

The BY25Q32BS is 32M-bit Serial Peripheral Interface(SPI) Flash memory, and supports the Dual/Quad SPI: Serial Clock, Chip Select, Serial Data I/O0 (SI), I/O1 (SO), I/O2 (/WP), and I/O3 (/HOLD). The Dual I/O data is transferred with speed of 216Mbits/s



BY25Q16BS

The BY25Q16BS is 16M-bit Serial Peripheral Interface(SPI) Flash memory, and supports the Dual/Quad SPI as well as 2-clocks instruction cycle Quad Peripheral Interface (QPI): Serial Clock, Chip Select, Serial Data I/O0 (SI), I/O1 (SO), I/O2 (/WP), and I/O3 (/HOLD).

BY25D16

The BY25D16 is 16M-bit Serial Peripheral Interface (SPI) Flash memory, and supports the Dual SPI: Serial Clock, Chip Select, Serial Data I/O0 (SI), I/O1 (SO). The Dual Output data is transferred with speed of 108Mbits/s. The device uses a single low voltage power supply



BY25D80

The BY25D80 is 8M-bit Serial Peripheral Interface (SPI) Flash memory, and supports the Dual SPI: Serial Clock, Chip Select, Serial Data I/O0 (SI), I/O1 (SO). The Dual Output data is transferred with speed of 108Mbits/s. The device uses a single low voltage power supply





SPI NOR Flash

Item	Specification	Storage Capacity	Packaging
3.3V 4M 150mil	BY25D40ASTIG(T)	4	SOP8
3.3V 16M 150mil	BY25Q16BSTIG(T)	16	SOP8
3.3V 16M QPI 208mil	BY25Q16BSSIG(T)	16	SOP8
3.3V 16M 150mil	BY25D16ASTIG(T)	16	SOP8
3.3V 16M 208mil	BY25D16ASSIG(T)	16	SOP8

BY25D40

The BY25D40 is 4M-bit Serial Peripheral Interface (SPI) Flash memory, and supports the Dual SPI: Serial Clock, Chip Select, Serial Data I/O0 (SI), I/O1 (SO). The Dual Output data is transferred with speed of 108Mbits/s. The device uses a single low voltage power supply, ranging from 2.7 Volt to 3.6 Volt.



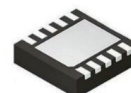
SOP8 150-mil



SOP8 208-mil

BY25Q64AS

The BY25Q64AS is 64M-bit Serial Peripheral Interface (SPI) Flash memory, and supports the Dual/Quad SPI: Serial Clock, Chip Select, Serial Data I/O0 (SI), I/O1 (SO), I/O2 (/WP), and I/O3 (/HOLD). The Dual I/O data is transferred with speed of 240Mbits/s



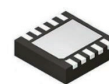
WSO (6*5 mm)



SOP 208 mil

BY25Q128AS

The BY25Q128AS is 128M-bit Serial Peripheral Interface (SPI) Flash memory, and supports the Dual/Quad SPI: Serial Clock, Chip Select, Serial Data I/O0 (SI), I/O1 (SO), I/O2 (/WP), and I/O3 (/HOLD). The Dual I/O data is transferred with speed of 240Mbits/s



WSO (5*6 mm)



SOP 208 mil

BY25Q256FS

The BY25Q256FS is 256M-bit Serial Peripheral Interface (SPI) Flash memory, supports the Dual/Quad SPI: Serial Clock, Chip Select, Serial Data I/O0 (SI), I/O1 (SO), I/O2 (/WP), and I/O3 (/HOLD), Reset; and supports the QPI: Serial Clock, Chip Select, I/O0, I/O1, I/O2, and I/O3, Reset

Design Solutions

IOT Oriented Design



DMF (Design for Manufacturing)
Electronics and Mechanics Integration



Assistant of Product Requirement Check
SPEC Communication and Confirmation

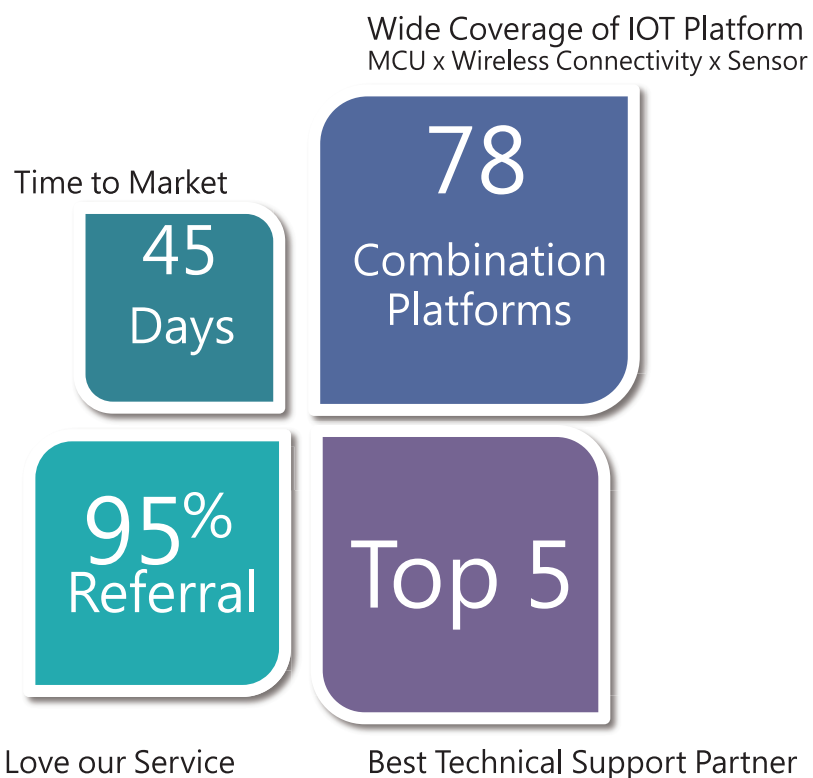


Connectivity
Connection, Sensing, Control-Over Integration



Software
Firmware Programming & User Interface Software Support

Advantages



Design Solutions

IOT Showcase

► IOT



Lighting

1. Sleep-Aid Light
2. LED Grow Light
3. Smart Lighting



Industrial

1. Stepping Motor Remote Control
2. BMS (Battery Management System)
3. Production Programming Test



SmartHome

1. Smart Gas Meter
2. Alexa Voice Control
3. Gesture Control Lighting



Entertaining

1. Game Pad
2. Smart Spinning Bike Platform
3. Smart Bat



Health Care

1. Heart Rate Sensing Device
2. TENS
3. Smart Litter Box for Cat

IOT Showcase_by Solution

► MCU/Wireless/Sensor

MCU

CortexFamily
Firmware coding



Connectivity

Wireless Communication
support via Broadband,
Near-Field, GPS Technology,
LTE.



Sensor/ Controller

Integration of Sensors,
Controllers, Mobile APP,
and OS.

