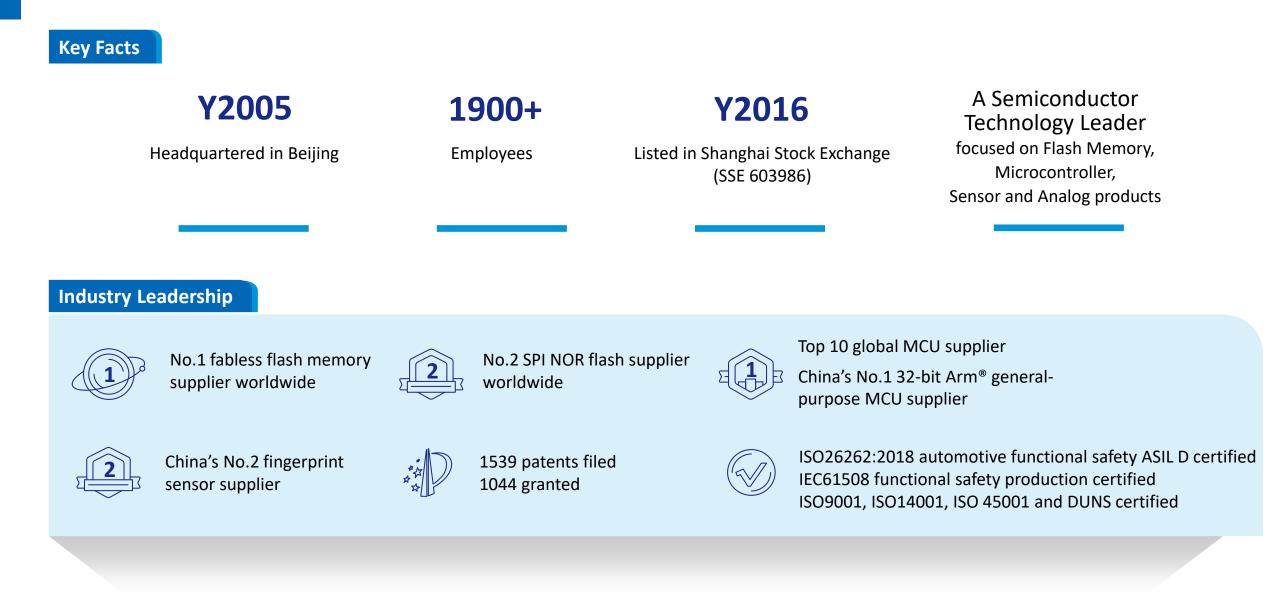


## **Corporate Overview**

Aug. 2024

www.GigaDevice.com

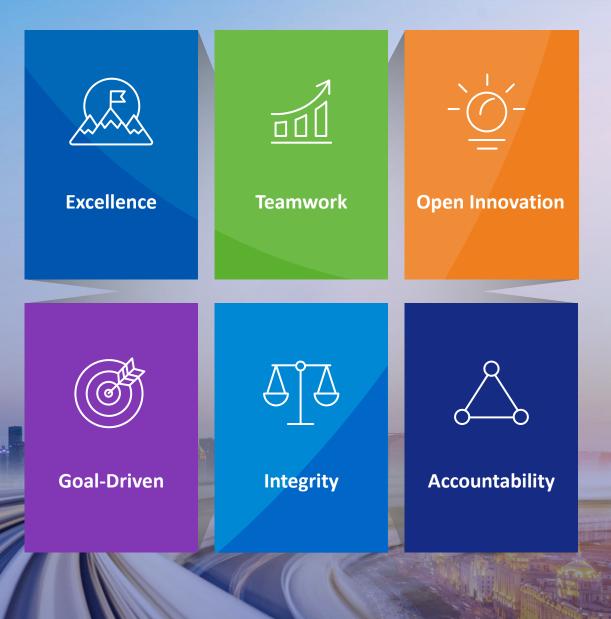
### **GigaDevice Overview**



#### GigaDevice

### **Our Mission and Core Values**

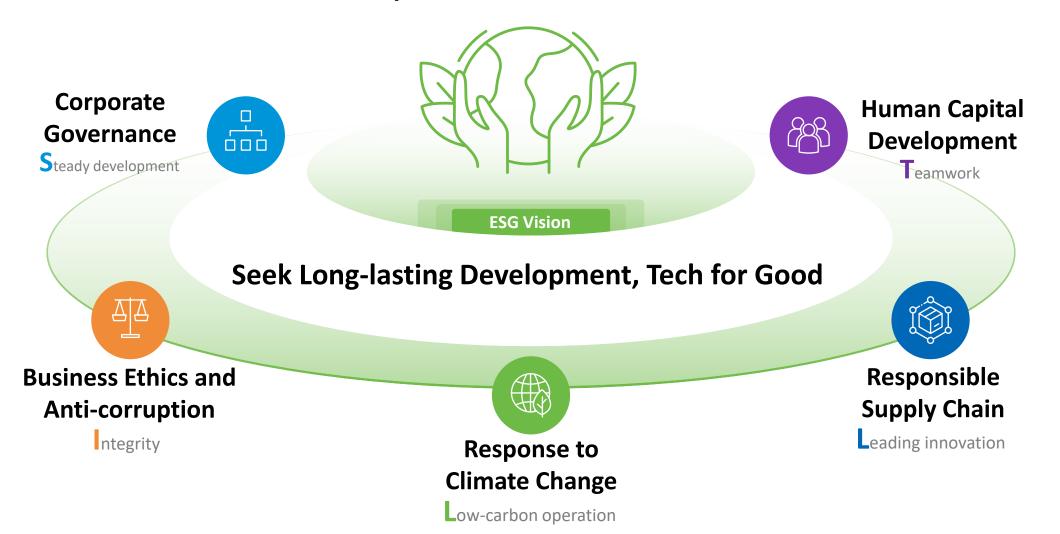
## To empower better living through technological innovation





## ESG Strategy——STILL Framework

**ESG Key Issue and cultural connotation** 





## **Sustainability**



- Formulated the Administrative Measures for Environmental, Social and Governance (ESG), and established a three-level ESG management structure
- Actively respond to UN SDGs
- Prepared GigaDevice ESG Improvement Plan (2023-2025)

### **Sustainability Key Performance in 2023**

#### **Diversification and Occupational Health & Safety**

Promoted diversified employment

36% Female employees

Organized various trainings

26.73h

to all employees

Training time per employee

Provide a healthy and safe working environment for employees

### ISO 45001

Occupational Health and Safety Management System Certificate

#### **Response to Climate Change**

Scope 1 GHG Emissions

**226.16** tCO<sub>2</sub>e

Scope 2 GHG Emissions **6,095.22** tCO<sub>2</sub>e

Scope 3 (Business travel)

**109.72** tCO<sub>2</sub>e/revenue per CNY 100 million

#### **Clean Technology**

**Density of Total GHG Emissions** 

In 2023, Hefei rooftop PV electricity generation 27,747 KW•h, reducing GHG emissions by 15.82 tCO<sub>2</sub>e

We had **243** granted patents related to clean technology

# 851.24 tCO,e

#### Low Power Products

SPI NOR Flash GD25WD/WQ Series GD25LE Series 1.2V GD25UF low voltage series

#### MCU Arm<sup>®</sup> Cortex<sup>®</sup>-M based MCUs with multiple power-saving modes

#### **Partners and Ecosystem**



Type I core suppliers received ISO 9001 and ISO 14001 certifications



Drove industrial ecosystem construction, actively participated in industry summits, and collaborated with partners to promote technological innovation in industry

#### Public welfare programs





111 Total number of persons

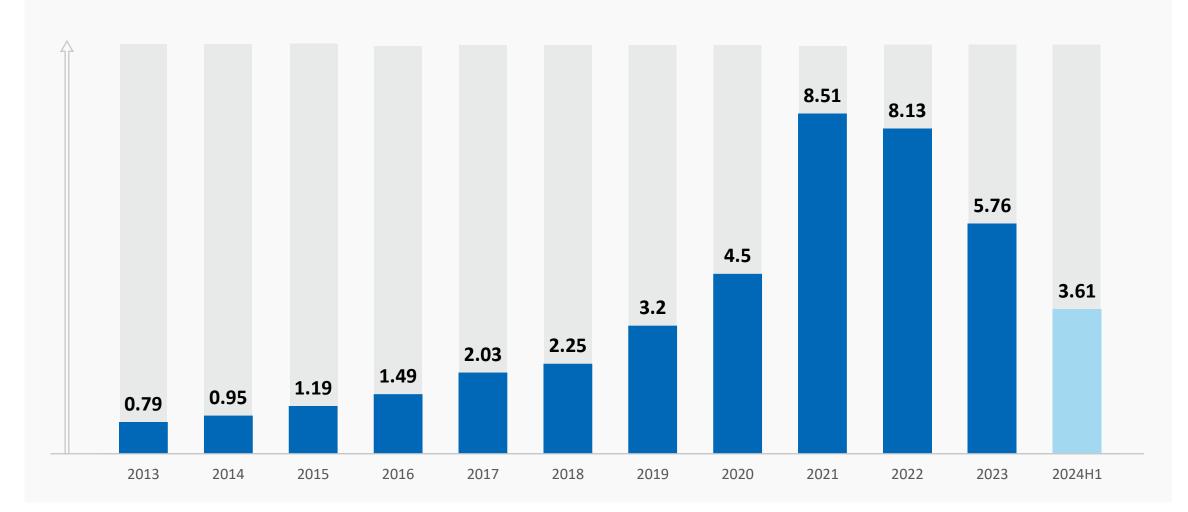
### **Milestones**

| 2005.4                                | 2008 •   | 2015   | 2019 🔹  | 2021   | • 2023  |
|---------------------------------------|--|--|---|--|---|
| Established headquarter<br>in Beijing | Launched China's<br>first SPI NOR Flash                | China's first in-house<br>developed NAND Flash in<br>mass production<br>Completed the first NOR<br>Flash AEC-Q100<br>qualification | Successfully acquired<br>Silead Inc.<br>Launched world's first<br>RISC-V 32-bit MCU<br>PMU project kicked off<br>GD25 SPI NOR Flash<br>passed the AEC-Q100<br>qualification | Established<br>Automotive<br>Product<br>Department | 100Mu<br>Automotive Flash<br>memory shipment<br>milestone<br>Launched Arm®<br>Cortex® -M7<br>G32H7 series MCU |
| • •                                   | • •  |  | • •   |  |   |
| 2006                                  | 2013   | 2016.8   | 2020  | 2022   |   |
| Low-power SRAM<br>in mass production  | Launched China's first<br>32-bit Arm® Cortex®-N<br>MCU | U  | 24nm SLC NAND Flash<br>in mass production   | GD5F SPI NAND F<br>the AEC-Q100 qu                 |   |
|                                       | Launched world's                                       | -  |   |  |   |

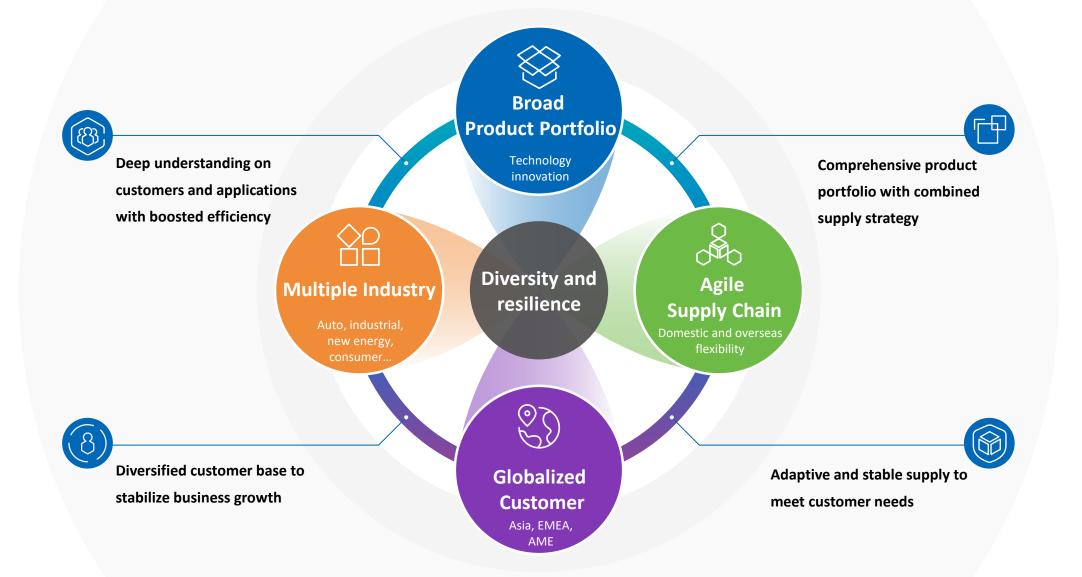
• first 8-pin SPI NAND Flash

### Revenue

**Company Revenue (CNY Billion)** 

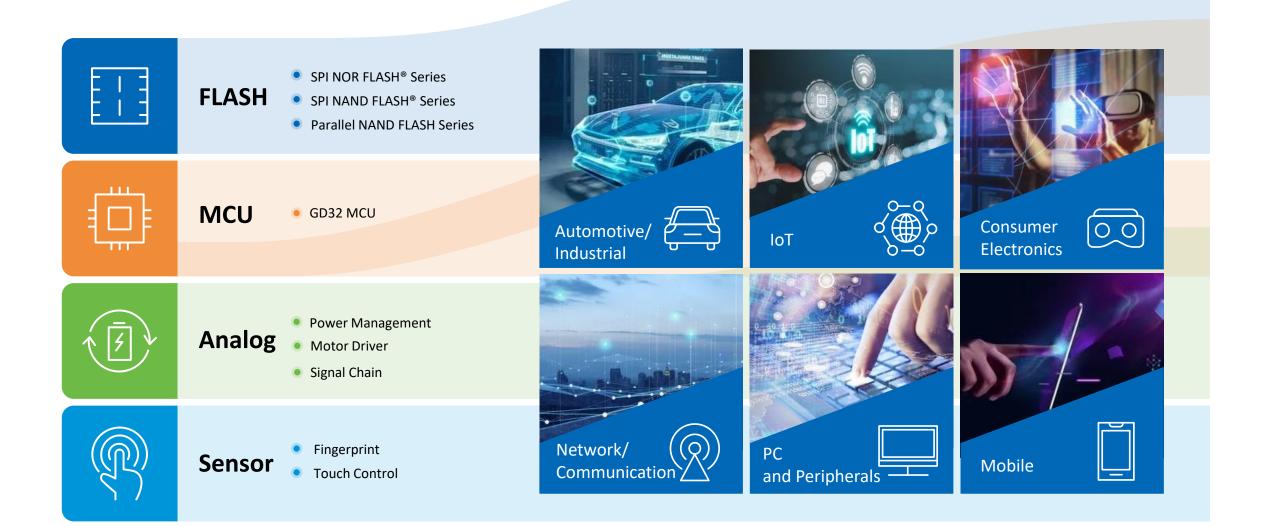


## **Building a Diversified Foundation for Competitive Advantage**





## **Diversified Products and Markets**





## **Global Organization**

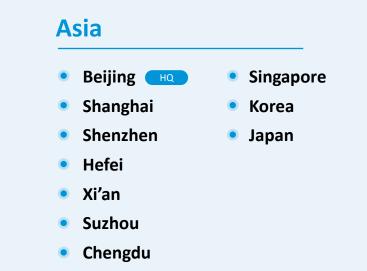
#### Europe

- London, UK
- Munich, Germany

#### **North America**

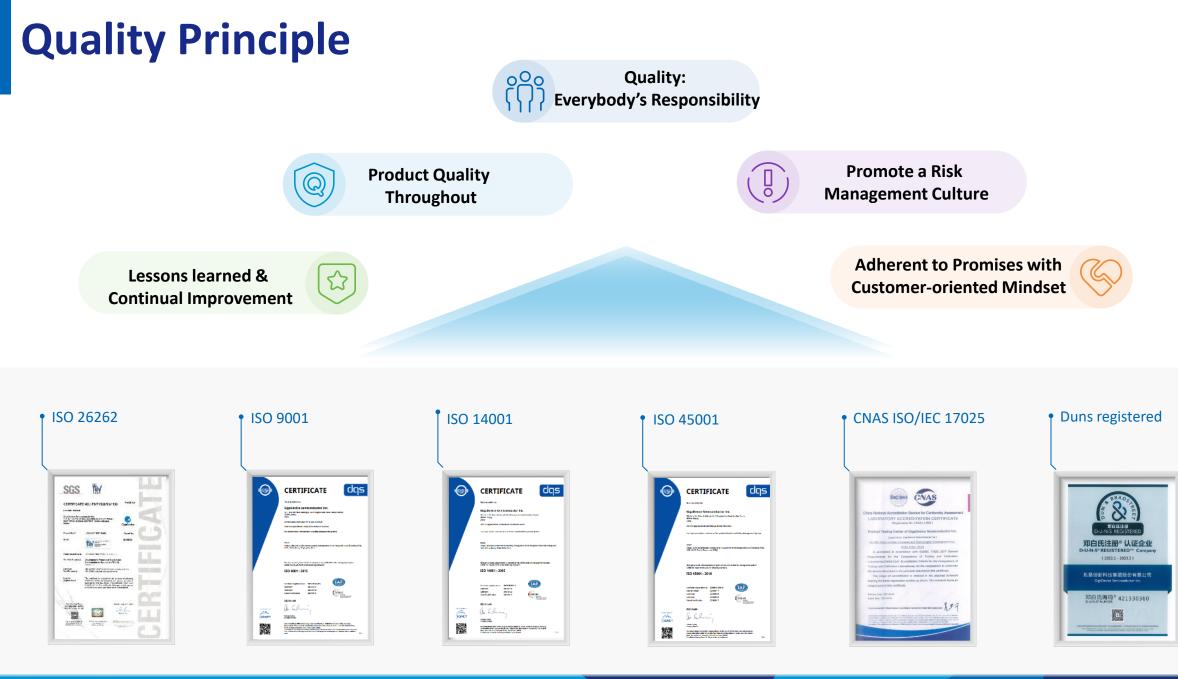
- San Jose, CA
- Dallas, TX
- Boston, MA



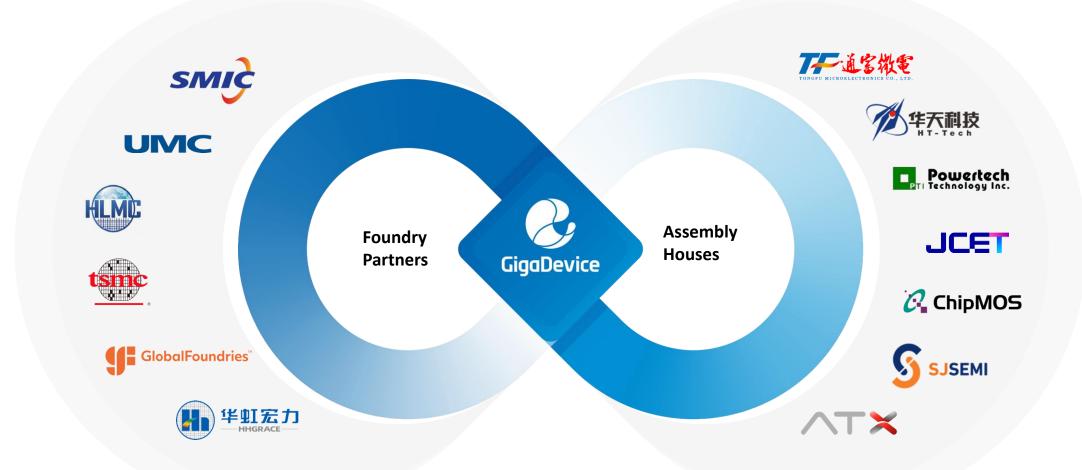


- Hongkong
- Hsinchu





## **Supply Chain**





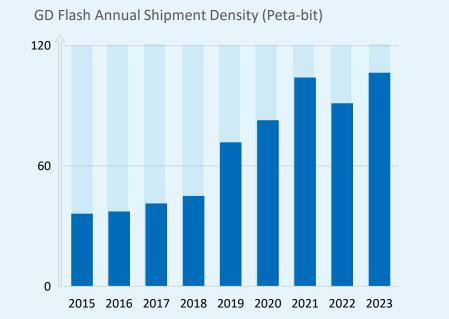


## **Rapid Growth in NOR Flash**

### Shipped over 23.7 Billion Units of Flash Memory



#### 2023 Global SPI NOR Flash Vendor Rank



## Ranked No.2 in SPI NOR Flash

| 1 | Winbond           | 27.8% |
|---|-------------------|-------|
| 2 | GigaDevice        | 19.1% |
| 3 | Macronix          | 16.8% |
| 4 | Infineon(Cypress) | 12.5% |
| 5 | Micron            | 6.0%  |
| 6 | Others            | 17.8% |

Source: Web-Feet Research, 2024

### **Flash Product Trends**

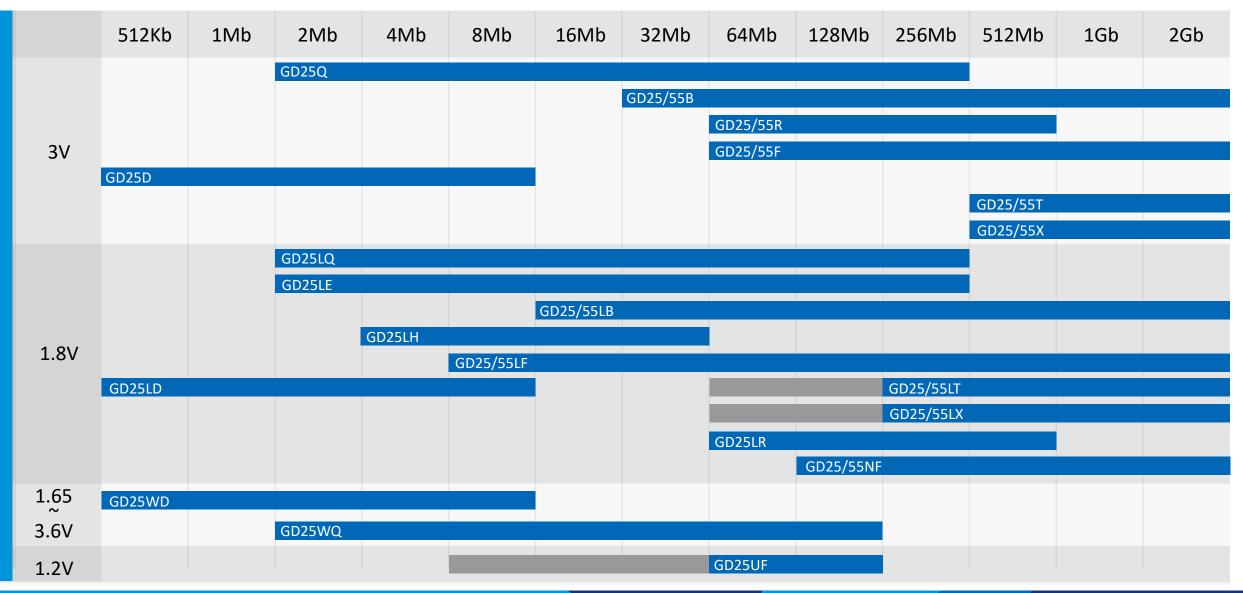
| <ul> <li>density and in mass production.</li> <li>GD25T/LT is industry highest performance Quad SPI NOR Flash provides 1Gb to 8Gb consortium standard,</li> <li>GD25X/LX Octal SPI NOR Flash is fully compliant with Micron Xccela Consortium standard,</li> <li>GD25X/LX Octal SPI NOR Flash is fully compliant with Micron Xccela Consortium standard,</li> </ul> | Full Density   | High Performance   | High Reliability  | LOW Power  | Small Package  |
|---|--|--|---|--|--|
| 400MB/s. lower power and high-  | <ul> <li>512Kb to 2Gb density to meet market requirements.</li> <li>GD5F SPI NAND Flash provides 1Gb to 4Gb density and in mass production.</li> <li>GD9F Parallel NAND Flash provides 1Gb to 8Gb density and in mass production.</li> <li>The automotive product</li> </ul> | <ul> <li>performance Quad SPI NOR<br/>Flash in medium and low<br/>density, with data<br/>throughput up to 104MB/s.</li> <li>GD25T/LT is industry highest<br/>performance Quad SPI NOR<br/>Flash with data throughput<br/>up to 200MB/s.</li> <li>GD25X/LX Octal SPI NOR Flash<br/>is fully compliant with Micron<br/>Xccela Consortium standard,<br/>with data throughput up to</li> </ul> | <ul> <li>typically and 100K P/E cycles.</li> <li>Support high temperature up to 125°C.</li> <li>64Mb and above density NOR Flash supports ECC for high product reliability which meets the harsh requirements in</li> </ul> | <ul> <li>excellent low power<br/>performance in industry.</li> <li>GD25WD/WQ wide voltage<br/>range Flash operates in 1.65V<br/>to 3.6V power supply which<br/>provides best option for<br/>battery powered applications.</li> <li>1.2V Ultra Low Power series<br/>for extremely power<br/>sensitive applications.</li> <li>1.8V VCC 1.2V VIO dual<br/>power flash for lower voltage,</li> </ul> | <ul> <li>package is increasing and<br/>requires high quality<br/>manufacturing standard.</li> <li>Introduced industry<br/>smallest 1.2x1.2mm USON6<br/>package.</li> <li>Introduced industry<br/>smallest 128Mb and 64Mb<br/>SPI NOR Flash in<br/>3x3x0.4mm FO-USON8 and<br/>3x2x0.4mm FO-USON8<br/>package respectively.</li> <li>Provided industry smallest<br/>6x5mm WSON8 package</li> </ul> |

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## **SPI NOR Flash Roadmap**

Mass Production

Developing



### GigaDevice

### NAND Flash Roadmap

Mass Production Developing

|                | 1Gb  | 2Gb | 4Gb | 8Gb |
|----------------|------|-----|-----|-----|
|                |      |     |     |     |
| SPI Interface  | 38nm |     |     |     |
| GD5Fx          |      |     |     |     |
|                | 24nm |     |     |     |
|                |      |     |     |     |
|                |      |     |     |     |
| ONFI Interface | 38nm |     |     |     |
| GD9Fx          |      |     |     |     |
|                | 24nm |     |     |     |
|                |      |     |     |     |

### **Approved Supplier in 5,500+ SoC Reference Designs Worldwide**

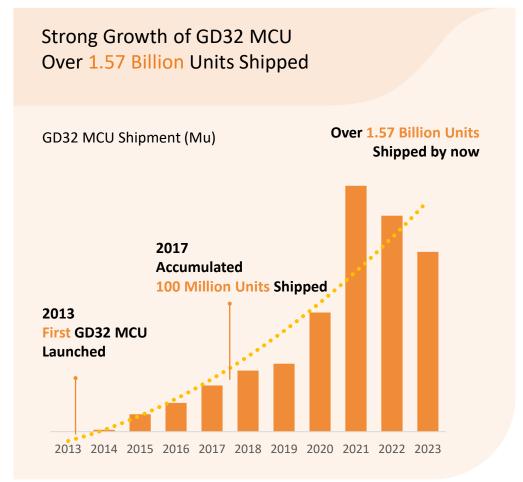
5500+

| infineon              | SEQUANS                   | RENESAS<br>瑞萨                                | <u>FocalTech</u>             | asmedia 🗖                | BROADCOM <sup>®</sup>                        |
|-----------------------|---------------------------|--|------------------------------|--------------------------|--|
| Synaptics             |                           |  | MegaChips                    | OMNIVISI@N°              | Sigm <b>©Star</b>                            |
| Qualcom               | Ambarella.                | MEDIATEK                                     |                              | STARBLAZE                |  |
| () JMicron            | SONY                      | TEXAS<br>INSTRUMENTS                         | <b>REALTEK</b>               | Rockchip                 | Sonix  |
| ALi                   | AHEAD OF WHAT'S POSSIBLE* | intel.                                       |                              |                          | XXX  |
| nobileye <sup>-</sup> |                           | SILICON LABS                                 |                              | MARVELL                  | <i>Drive for better vision</i>               |
| Raydium               |                           | GENESYS                                      | onsemi                       | QOCVO.<br>all around you | artos <mark>ý</mark> n <sup>®</sup><br>酷芯微电子 |
| 577                   |                           | 册 兆芯   | 谷雨半导体<br>Grain semiconductor | ALLWIMER<br>全志科技         | SUNPLUS                                      |
| KCALTERAH             | 地平线<br>Horizon Robotics   | <b>展芝麻智能</b><br>BLACK SESAME<br>TECHHOLOGIES | 芯驰 SemiDrive                 | Siengi∩e<br>芯 撃 科 技      | <b>入XQ2a</b><br>夏芯元智                         |





## Strong Growth of GD32 MCU



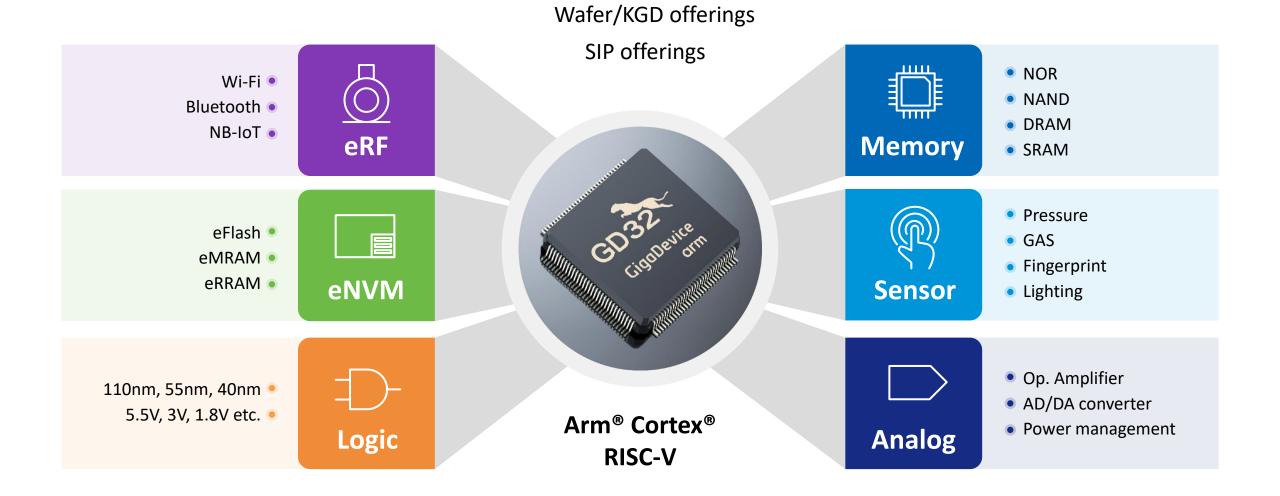
#### **TOP** 10 Global Top10 MCU Supplier Market Share 2022 Rank 2021 Rank ST 17.3% 3 1 16.5% Renesas 2 2 16.5% NXP 3 1 Microchip 13.4% 4 5 Infineon 13.1% 5 4 6.8% ΤI 6 6 GigaDevice 1.8% 8 7 Nuvoton 1.6% 8 7 9 Samsung 1.2% 9 Silicon Labs 1.2% 10 10

Source: Omdia Microcontroller Market Tracker - 2H22 Database, Apr.2023

#### GigaDevice

## GD32 MCU "One-Stop Shop"

GigaDevice



## **GD32** Product Family

| 50     | 600+     |
|--------|----------|
| Series | Part No. |

|                                 | Cortex®-M23  | Cortex®-M3   | Cortex   | ®-M4   | Cortex   | ®-M33  | Cortex®-M7   | RISC-V                        |
|---------------------------------|--|--|--|--|--|--|--|-------------------------------|
| High-                           |  | GD32F207<br>120MHz, 3M/256K<br>GD32F205                | GD32F470<br>240MHz, 3M/768K<br>GD32F425                    | GD32F427<br>200MHz, 3M/256К<br>GD32F450          | GD32F527<br>200MHz, 7.5M/1M<br>GD32E517                        | GD32E518<br>180MHz, 512K/128K<br>GD32E513                      | GD32H759<br>600MHz, 3840K/1024K<br>GD32H757<br>600MHz, 3840K/1024K |                               |
| کر <mark>ا</mark> ے Performance |  | 120MHz, 3M/256K  | 200MHz, 3M/256K<br>GD32F407<br>168MHz, 3M/192K<br>GD32F403 | 200MHz, 3M/512K<br>GD32F405<br>168MHz, 3M/192K   | 180MHz, 512K/128K<br>GD32E508<br>180MHz, 512K/128K<br>GD32E505 | 180MHz, 512K/128K<br>GD32E507<br>180MHz, 512K/128K<br>GD32E503 | 600MHz, 3840K/1024K  |                               |
|                                 |  |  | 168MHz, 3M/128K  |  | 180MHz, 512K/128K  | 180MHz, 512K/128K  |  |                               |
|                                 |  | GD32F107<br>108MHz, 1M/96K<br>GD32F105                 | GD32F307<br>120MHz, 1M/96K<br>GD32F303                     | GD32F305<br>120MHz, 1M/96K<br>GD32C113           | GD32E502<br>100MHz, 384K/48K                                   |  |  | GD32VF103<br>120MHz, 128K/32K |
| Main-<br>Stream                 |  | 108MHz, 1M/96K<br><b>GD32F103</b><br>108MHz, 3M/96K    | 120MHz, 3M/96K<br>GD32E113<br>120MHz, 128K/32K             | 120MHz, 128K/32K<br>GD32C103<br>120MHz, 128K/32K |  |  |  |                               |
|                                 |  | GD32F101<br>56MHz, 3M/80K                              | <b>GD32E103</b><br>120MHz, 128K/32K                        |  |  |  |  |                               |
| Entry-Level                     | GD32E235<br>72MHz, 128K/16K<br>GD32E230<br>72MHz, 64K/8K   | GD32F150<br>72MHz, 64K/8K<br>GD32F130<br>48MHz, 64K/8K | GD32F350<br>108MHz, 128K/16K<br>GD32F310<br>72MHz, 64K/8K  | GD32F330<br>84MHz, 128K/16K                      |  |  |  |                               |
| Low-Power                       | GD32L235<br>64MHz, 128K/24K<br>GD32L233<br>64MHz, 256K/32K |  |  |  |  |  |  |                               |
| (((•))) Wireless                |  |  |  |  | GD32W515<br>180MHz, 2048K/448K                                 |  |  | GD32VW553<br>160MHz, 4M/320K  |
| Automotive                      |  |  |  |  | <b>GD32A513</b><br>100MHz, 384K/48K                            | GD32A503<br>100MHz, 384K/48K                                   |  |                               |
| 며 Specific                      | GD32E232<br>72MHz, 64K/8K                                  |  | <b>GD32FFPR</b><br>168MHz, 1M/128K                         |  | GD32E501<br>100MHz, 512K/32K                                   | <b>GD32EPRT</b><br>168MHz, 384K/96K+4M                         |  |                               |
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## **GD32 MCU Focused Applications**



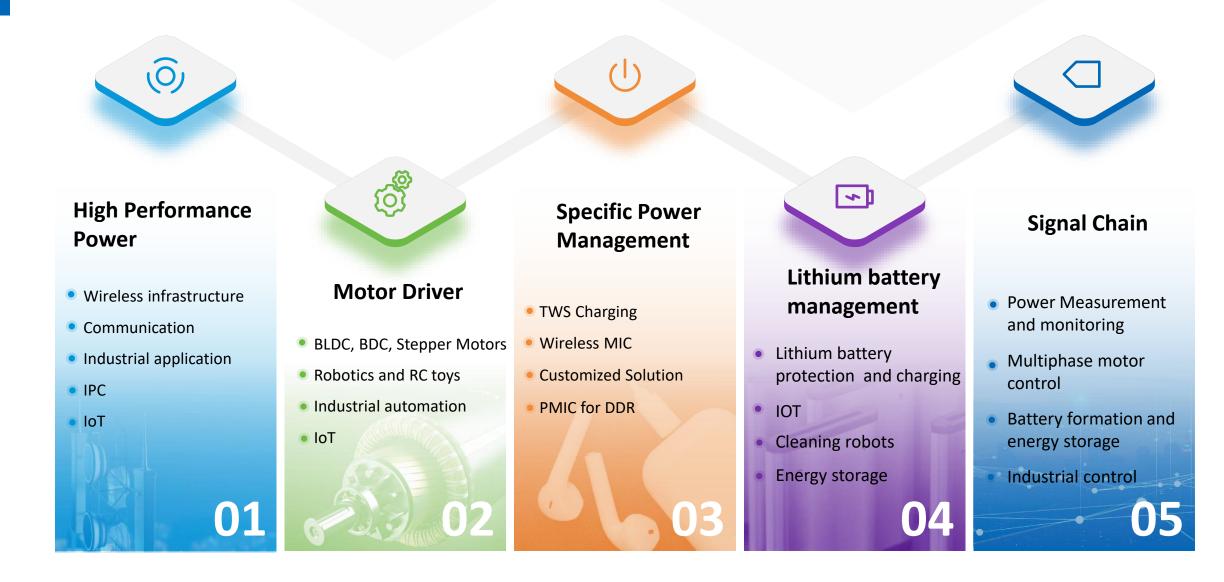
### **GD32 MCU Trends**







### **GD30 Products and Applications**

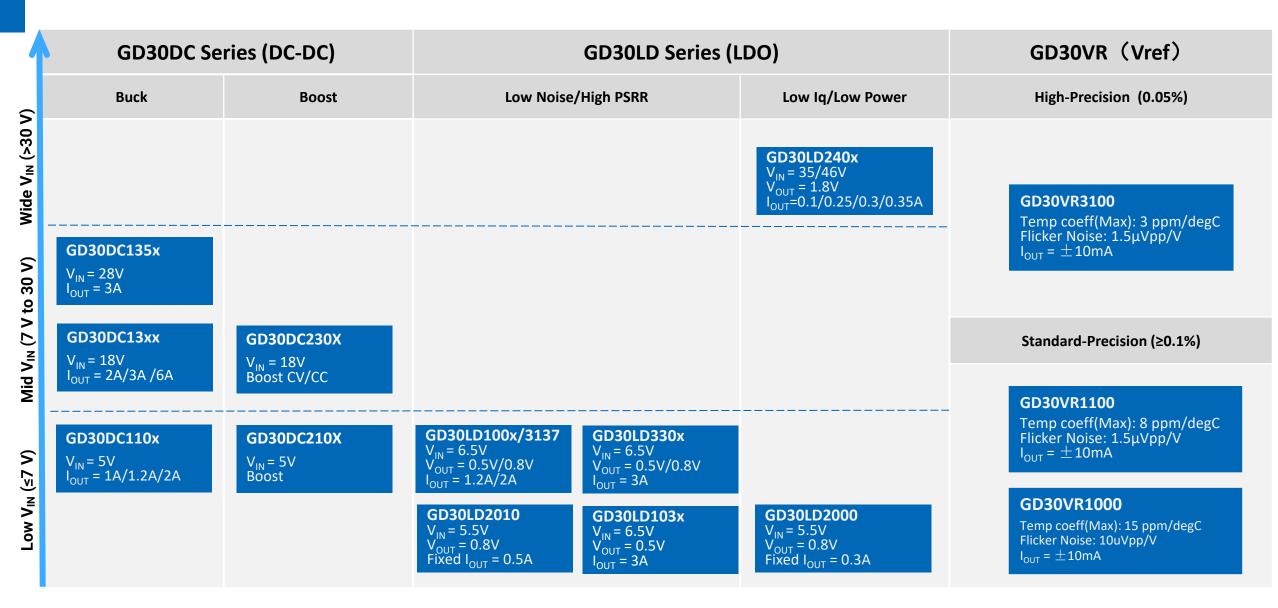


### GigaDevice

## **GD30 High Performance Power**

Mass Production

Developing



## **GD30 Li-ion Charger/Motor Driver**

Mass Production

Developing

| GD30BC Series  | (Li-ion Charger)   | GD30SP Series  | GD30DR Series(Motor Driver)  |  |  |
|--|--|--|--|--|--|
| Single Cell  | Multi Cells  | (Over Voltage Protector)   | BDC  | BLDC   | Stepper  |
| <b>GD30BC2416</b><br>1 Cell, Switch Mode<br>$V_{IN max} = 20V$<br>Charging Current $\leq 1.5A$     | <b>GD30BC2501</b><br>4/6 Cells, Switch Mode<br>V <sub>IN</sub> = 32V;<br>Charging Current ≤ 5A | GD30SP2200<br>V <sub>IN</sub> = 30V<br>I <sub>OUT</sub> = 3A<br>V <sub>OVLO</sub> = 4-15V  | <b>GD30DR300x</b><br>H-Bridge Driver with MOSFET<br>$V_{IN} = 40V$<br>$I_{OUT} = 3.2/4.5/6A$ | <b>GD30DR8413</b><br>Triple Half Bridge with 3A MOSFET<br>$V_{IN} = 30V$<br>$I_{OUT} = 4.5A$ | <b>GD30DR3820</b><br>Dual H-Bridge Driver<br>Integrated MOSFET<br>V <sub>IN</sub> = 10.8V; I <sub>OUT</sub> = 1A |
| <b>GD30WS8662</b><br>1 Cell, Linear Mode<br>V <sub>IN max</sub> 30V<br>Charging Current ≤ 456mA    | <b>GD30BC2502</b><br>2/3/5 Cells, Switch Mode<br>$V_{IN} = 32V$<br>Charging Current $\leq 5A$  | GD30SP2201<br>V <sub>IN</sub> = 30V<br>I <sub>OUT</sub> = 1.5A<br>V <sub>OVLO</sub> = 6.0V | <b>GD30DR380x</b><br>H-Bridge Driver with MOSFET<br>$V_{IN} = 10/11V$<br>$I_{OUT} = 1/1.8A$  | GD30DR8306<br>3-Phase Driver w/ 2A Buck<br>V <sub>IN</sub> = 30V<br>I <sub>OUT</sub> = 4.5A  |  |
| <b>GD30BC150x</b><br>1 Cell, Linear Mode<br>V <sub>IN max</sub> = 28V<br>Charging Current 800mA/1A |  |  |  | GD30DRE23x<br>3-Phase Driver SOC<br>V <sub>IN</sub> = 30V<br>I <sub>OUT</sub> = 4.5A         |  |
|  |  |  |  | <b>GD30DRE518</b><br>3-Phase Driver SOC<br>V <sub>IN</sub> = 150V                            |  |

### **GD30 Signal Chain Product**

Mass Production

| GD30AD Series (ADC)   |  | GD30AP Series   |  | GD30CP Series   | s GD30TS Series                        |
|---|--|---|--|---|--|
| Sigma-Delta   | SAR  | (Operation  | n Amplifier)   | (Comparator)  | (Temperature Sensor)                   |
| GD30AD3640<br>24bit 1KSPS 4-ch<br>12C interface<br>24bit<br>GD30AD334x<br>16bit 1KSPS 4-ch<br>SPI/I2C interface | GD30AD33G0<br>16bit 2x 8-ch<br>1MSPS<br>16bit<br>GD30AD3380<br>16bit 8-ch<br>500KSPS/ 1MSPS<br>16bit<br>GD30AD3382<br>16bit 8-ch<br>250k/500kSPS | GD30AP321/358/324<br>1/2/4-ch 1.8V~5.5V<br>1.2M BW +/-3mV Vos<br>30nV/sqrtHz@1KHz<br>GD30AP863x<br>1/2/4-ch 1.8V~5.5V<br>9M BW +/-3.5mV Vos<br>13nV/sqrtHz@1KHz | GD30AP855x<br>1/2-ch 1.8V~5.5V<br>Max 8uV Vos with<br>+/-40nV/degC drift<br>GD30AP72x<br>1/2/4-ch 1.8V~5.5V<br>8nV/sqrtHz@1KHz | GD30CP331/393<br>1/2-ch 1.8V~5.5V<br>100ns @ 100mV overdr<br>Open drain output<br>GD30CP872x<br>1/2-ch 1.8V~5.5V<br>66ns @ 100mV overdriv<br>Push pull output | ±0.25° C (0° C to +65° C)<br>GD30TS075 |



## **GD30 Specific Power Management**

Mass Production

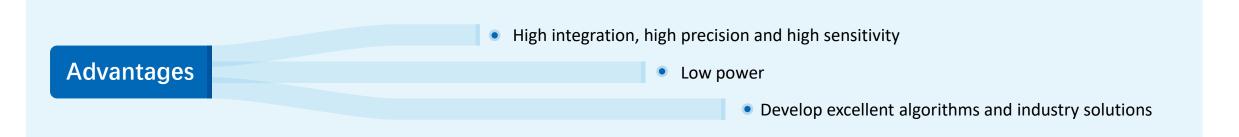
Developing

| GD30WS Series<br>(TWS Charging)   | GD30EC/MC/MP Series<br>(capacitor sensor)   | GD30MP Series<br>(PMIC for DDR)   | GD30BM Series<br>(BMS AFE)   |
|---|---|---|--|
| GD30WS8815<br>1.5A TWS Case PMIC<br>Power Path Mgmt                           | GD30EC2300<br>Constant power  | GD30MP10x0<br>VIN:4.25V-5.5V<br>3 BUCK Converters 4A+4A+1A<br>COT Mode<br>2 LDO Regulators: 1.8V&1.0V   | <b>GD30BM1018</b><br>Measures up to 18 cells in series<br>Maximum 2mV total measurement error<br>Support daisy chain communication |
| GD30W/S8855<br>1.5A TWS Case PMIC<br>Power Path Mgmt<br>Zero voltage charging | GD30EC3x00<br>580mA Linear Charger<br>Constant AV/RMS voltage                           | <b>GD30MP1020</b><br>For Over clock Application<br>3xBuck 5A/5A/2A 2xLDOs<br>for DDR5 SO/UDIMM<br>TQFN 3x4  |  |
| GD30WS8805<br>1.2A TWS Case PMIC<br>Power Path Mgmt                           | GD30MC Series<br>8-bit MCU<br>Flash&OTP 1K*14 bit<br>2K*16bit<br>16K*8bit<br>GD30MP9000 | GD30PD5118<br>Compliant with JEDEC JESD300-5B. 01<br>standard<br>Transmission rate: 12.5 MHz<br>Integrated temperature sensor:<br>accuracy of 0.5 ° C |  |
|   | Linear charger<br>MCU: MIC detection<br>Constant voltage/RMS/power<br>output            | <b>GD30TS139</b><br>11-bit resolution: 0.25°C (1 LSB)<br>1.8 V and 1.0 V power input<br>Exceeds JEDEC JESD302-1 temperature<br>accuracy<br>WLCSP      |  |
| GigaDevice  | @2024 GIGADEVICE CONFIDE  | NTIAL. ALL RIGHTS RESERVED  | 31   |



### **Sensor Business Scope**

Deeply cultivate sensors, signal chain, algorithms and solutions, and be a key contributor to the smart ecosystem

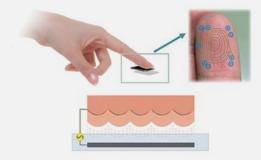




#### GigaDevice

## **Sensor Technology Platform**

### Capacitive Detection Technology Platform



- Self/mutual capacity detection
- High precision ADC
- High SNR AFE, signal conditioning

### Spectral Technology Platform



- High performance photodiode pixel design
- Optical lens design
- Micro-Lens design
- Spectral color filter design
- Optical simulation

#### **Algorithms and Solutions**



- High performance small area fingerprint algorithm
- Embedded fingerprint algorithm
- Heart rate algorithm

### GigaDevice

### **Sensor Roadmap**

| Applications              | Mobi   | le/Tablet   | PC  | IOT  |
|---------------------------|--|---|---|--|
| Under OLED<br>Fingerprint | <ul> <li>GSL7002</li> <li>FRR &lt;2% FAR 1/50K</li> <li>Support flexible/rigid OLED screen</li> <li>Support 3P lens</li> </ul>   | <b>GSL7003</b> <ul> <li>FRR &lt;2% FAR 1/50K</li> <li>Support flexible/rigid OLED screen</li> <li>Support 3P/2P lens</li> </ul>   |   |  |
| Capacitive                | <ul> <li>GSL6135</li> <li>Back-Mounted Round/square Type</li> <li>Φ8.9 ~ Φ12mm; 11*10.4 ~ 9*7.5mm</li> <li>508DPI / Pixel Array 64*64</li> <li>FRR &lt;3% FAR 1/50K</li> </ul>                               | <b>GSL6192</b> <ul> <li>Side-Mounted /W1.8mm*L13.5mm</li> <li>Support R5.5 Curved LGA</li> <li>584DPI / Pixel Array 180*30</li> <li>Support Over Current Protection</li> <li>1.8v/1.2v IO compatible</li> <li>FRR &lt;1.5% FAR 1/50K</li> </ul> | GSL6150<br>• MoH(Match on Host)<br>• FRR 2%, FAR 1/50K<br>• USB/SPI interface<br>• Microsoft HLK  | <ul> <li>GSL6150H</li> <li>MoH (Match on Host)</li> <li>FRR 2%, FAR 1/50K</li> <li>USB/SPI interface</li> </ul>  |
| Fingerprint               | <b>GSL6193</b> <ul> <li>Side-Mounted /W2.1mm*L13.5mm</li> <li>508DPI / Pixel Array 118*32</li> <li>Support Over Current Protection</li> <li>1.8v/1.2v IO compatible</li> <li>FRR &lt;3% FAR 1/50K</li> </ul> | <ul> <li>GSL6195</li> <li>Side-Mounted<br/>/W2.1&amp;1.8mm*L13.5mm</li> <li>508DPI / Pixel Array 118*26</li> <li>Support Over Current Protection</li> <li>1.8v/1.2v IO compatible</li> <li>FRR &lt;3% FAR 1/50K</li> </ul>                      | <b>GSL6186</b> <ul> <li>MoC (Match on Chip)</li> <li>FRR 2%, FAR 1/50K</li> <li>Integrated hardware accelerator</li> <li>Microsoft HLK/ESS</li> </ul>   | <ul> <li>GSL6186C</li> <li>MoC (Match on Chip)</li> <li>FRR 2%, FAR 1/50K</li> <li>Embedded fingerprint algorism</li> </ul>  |
| LCD Touch                 | <ul> <li>GSL915/1691</li> <li>Support &lt;7 inches display</li> <li>High SNR</li> <li>The most economical system solution</li> </ul>   | GSL1680/3670/3676/<br>3680/3692/5680<br>• Support 7-20 inches display<br>• High SNR<br>• The most economical system solution  | <ul> <li>GSIN1377x</li> <li>Up to 26*14 channels, Self + Mutual</li> <li>Best-in-class resource &amp; performance</li> <li>Full compliance with Window's PTP</li> <li>One-shop solution with advanced features</li> </ul> | <ul> <li>GSL377x</li> <li>Up to 26*14 channels, Self + Mutual</li> <li>Best-in-class resource &amp; performance</li> <li>Enhance immunity to RF interference<br/>and AC charger noise</li> <li>One-shop solution with advanced<br/>features</li> </ul> |

### GigaDevice

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# **Thank You**

