



Total Display Control

CHIPONE

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CHIPONE

Chipone Core Values

Integrity Responsibility
Professional Perseverance

Vision

To be a leading company
of display IC design

Devote to becoming the world's leading provider
of display IC products and solutions



Chipone
Official website

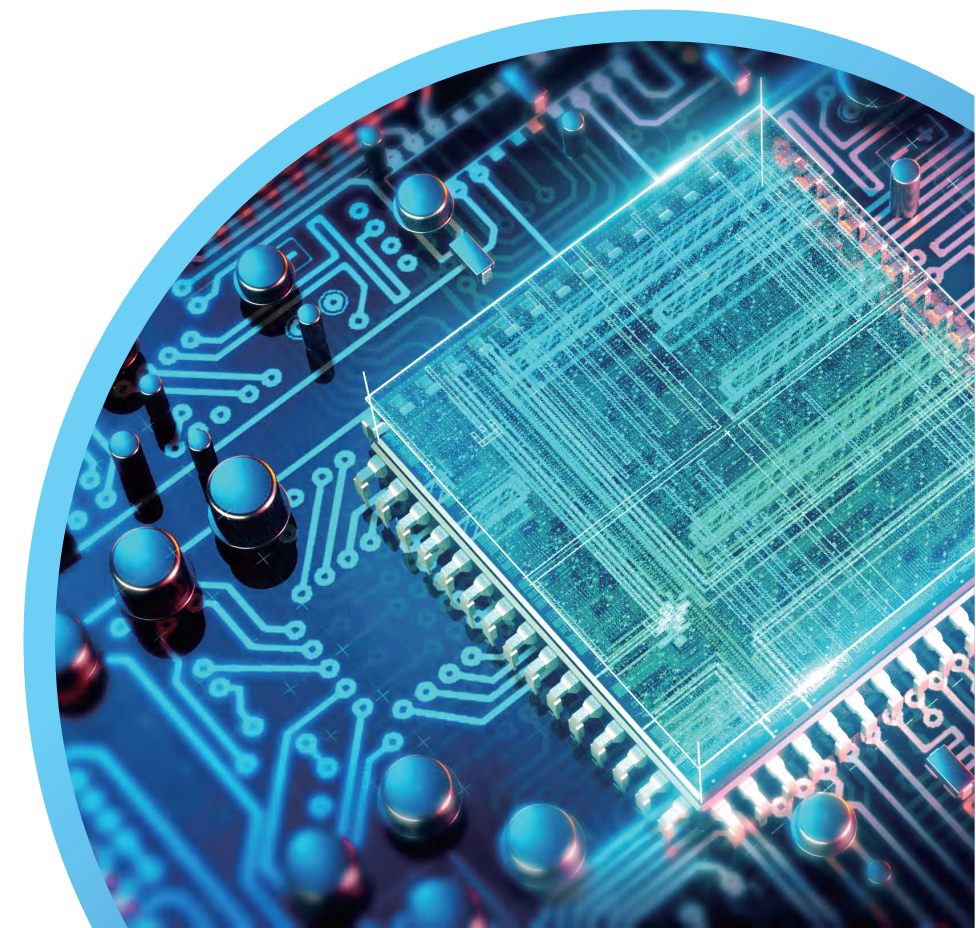


Company Profile

Founded in 2008, Beijing Chipone Technology Co., Ltd. is an international leading display chip design company, committed to becoming a leader in total display control.

The company now has a full range of display driver chips, power management chips, SoC chips, automotive chips and other product series, which can be widely used in mobile terminal products, wearable devices, indoor and outdoor ultra-high-definition displays, AR/VR, industrial, automotive, medical and other scenarios.

The market share of Chipone's LED display driver chips has ranked first in the world for five consecutive years, and the market share of LCD DDIC, TDDI chips and panel power management chips for smartphones has ranked first among mainland manufacturers. Chipone has applied for a total of 2431 domestic and foreign patents, and has won many honors such as "National Intellectual Property Advantage Enterprise" and "Beijing High-Precision Industrial Design Center".



Chipone Profile

2008

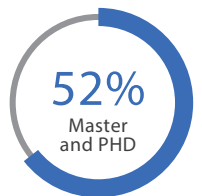
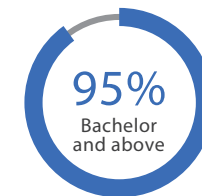
Established in 2008 with 16years of history

12 countries and regions

- | Beijing
- | Zhuhai
- | Shenzhen
- | Shanghai
- | Suzhou
- | Hefei
- | Chengdu
- | Hong Kong
- | Taiwan,China
- | Silicon Valley, USA
- | Korea
- | Singapore



1148⁺ Employees

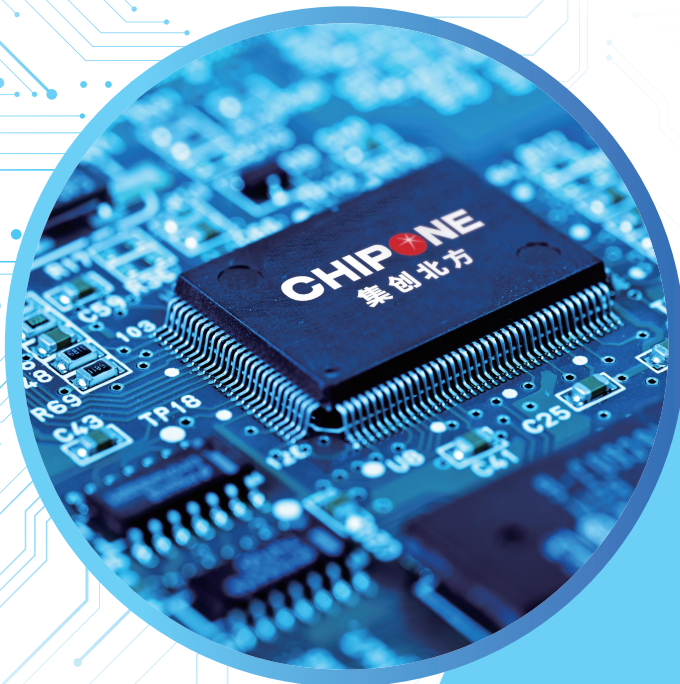


2431⁺ Items

2431⁺ Patent applications

Invention patents **2087⁺**

Oversea patents **1226⁺**



1st

- 2023 Global market share of LED display driver chip ranks 1st
- 2023 Mainland China market share of Panel power management chip ranks 1st
- 2023 Global market share of LCD TDDI chip ranks 1st among the mainland Chinese manufacturers
- 2023 Global market share of smartphone LCD DDIC ranked 1st among mainland Chinese manufacturers

Data source: Omdia 2024 CINNO Research TrendForce

25 million

- TDDI IC shipments exceed 25 million in a single month
- 10 million chips lit up the Tiananmen Square screen on the 70th anniversary of the National Day

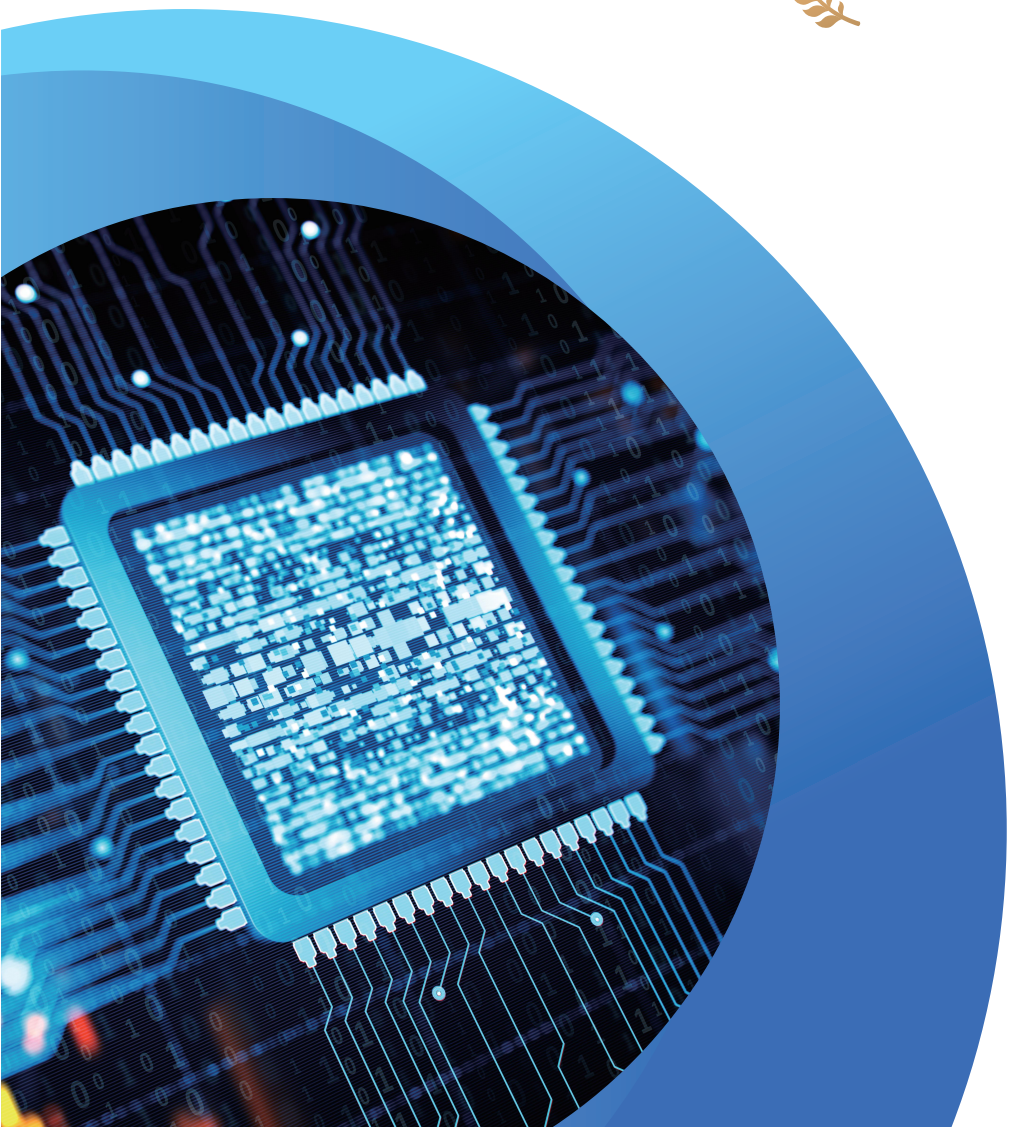
700 million

- TDDI total shipment exceeded 700 million
- Touch IC has shipped over 100 million in consecutive years

Enterprise Honor



<p>2024</p> <p>ICDT Gold Award for Expert Review</p>	<p>2024</p> <p>Beijing Trademark Association Beijing Famous Trademarks</p>	<p>2023</p> <p>DIC DIC Gold Award for Display Material Innovation</p>	<p>2023</p> <p>ISLE Excellent Product Award</p>
<p>2023</p> <p>ICDT Display of The Year Award</p>	<p>2022</p> <p>PMIC Outstanding Market Performance Product Award</p>	<p>2022</p> <p>AMOLED The 5th IC Innovation Award Achievement Industrialization Award</p>	<p>2022</p> <p>AMOLED SID Best Display Component Product Award</p>
<p>2021</p> <p>Beijing National Intellectual Property Demonstration Enterprise</p>	<p>2021</p> <p>Beijing Private Enterprises Technology Innovation Top 100</p>	<p>2021</p> <p>LED ISLE Display Excellent Product Award</p>	<p>2018-2021</p> <p>Four consecutive times IC Unicorn Award</p>
<p>2021</p> <p>TDDI SID Best of the Year Gold Award for Display Module Component Products</p>	<p>2020</p> <p>8K driver chip "China Chip Award" Excellent Technology Innovation Product Award</p>	<p>2020</p> <p>Zhongguancun High-Tech Enterprise Association Zhongguancun Top 100 High-Growth Enterprises</p>	<p>2020</p> <p>Beijing Government Beijing Science and Technology Progress Award</p>
<p>2019</p> <p>Beijing Municipal People's Government The Fifth Beijing Invention Patent Award Third Prize</p>	<p>2019</p> <p>Beijing Science and Technology Commission/ Beijing Municipal Bureau of Finance High-tech enterprise</p>	<p>2018</p> <p>Beijing Municipal Human Resources and Social Security Bureau Postdoctoral Workstation</p>	<p>2017</p> <p>National Intellectual Property Office Outstanding Patent Excellence Award</p>



Ecological Partners

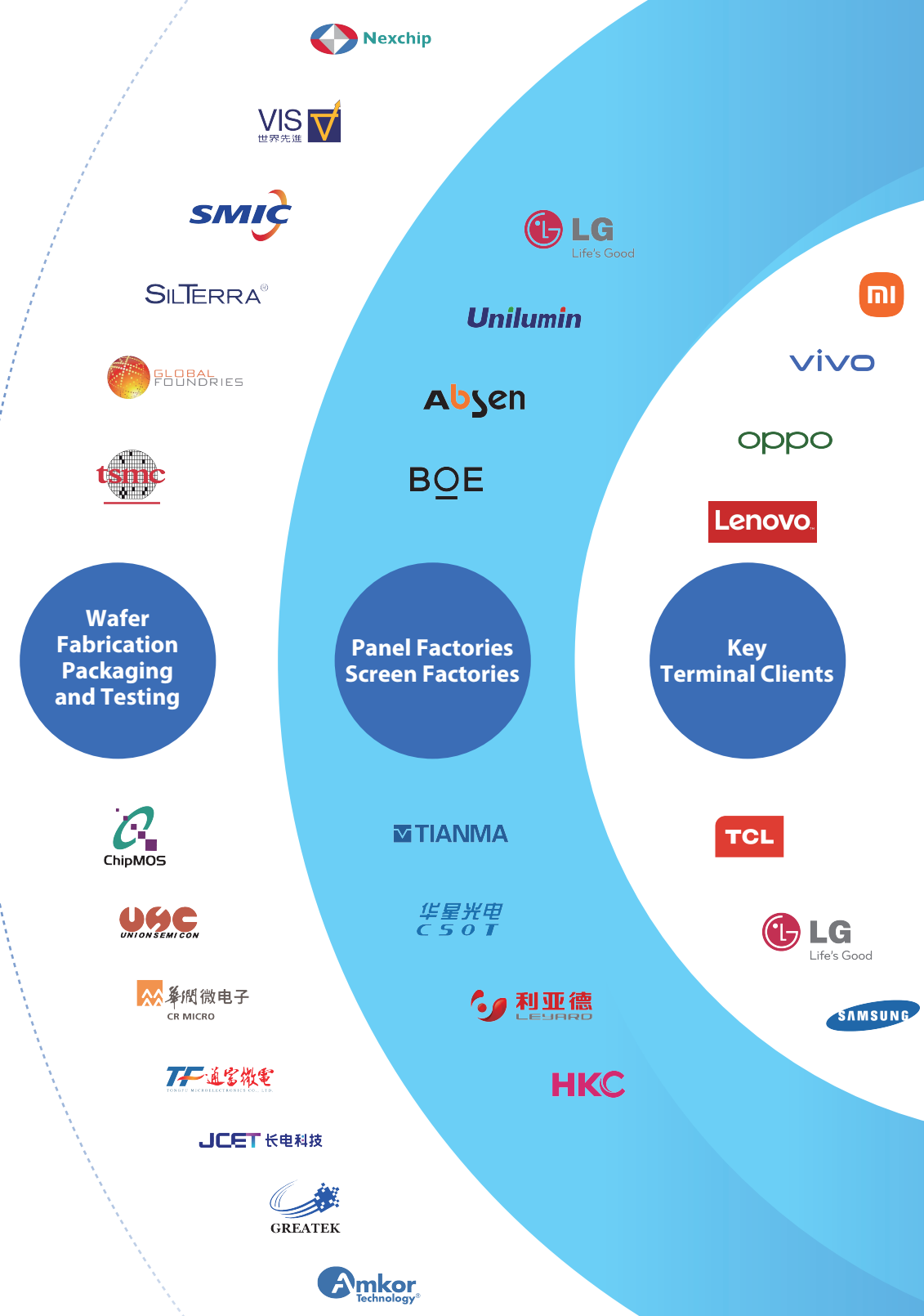
In terms of upstream suppliers, Chipone has established stable cooperative relationships with large wafer manufacturers and sealed packaging and testing manufacturers, such as Vanguard Intentional Semiconductor Corporation, Nexchip, SMIC, TFME, JCET, and CHIPMOS to ensure the steady improvement of the company's products' shipments and quality.

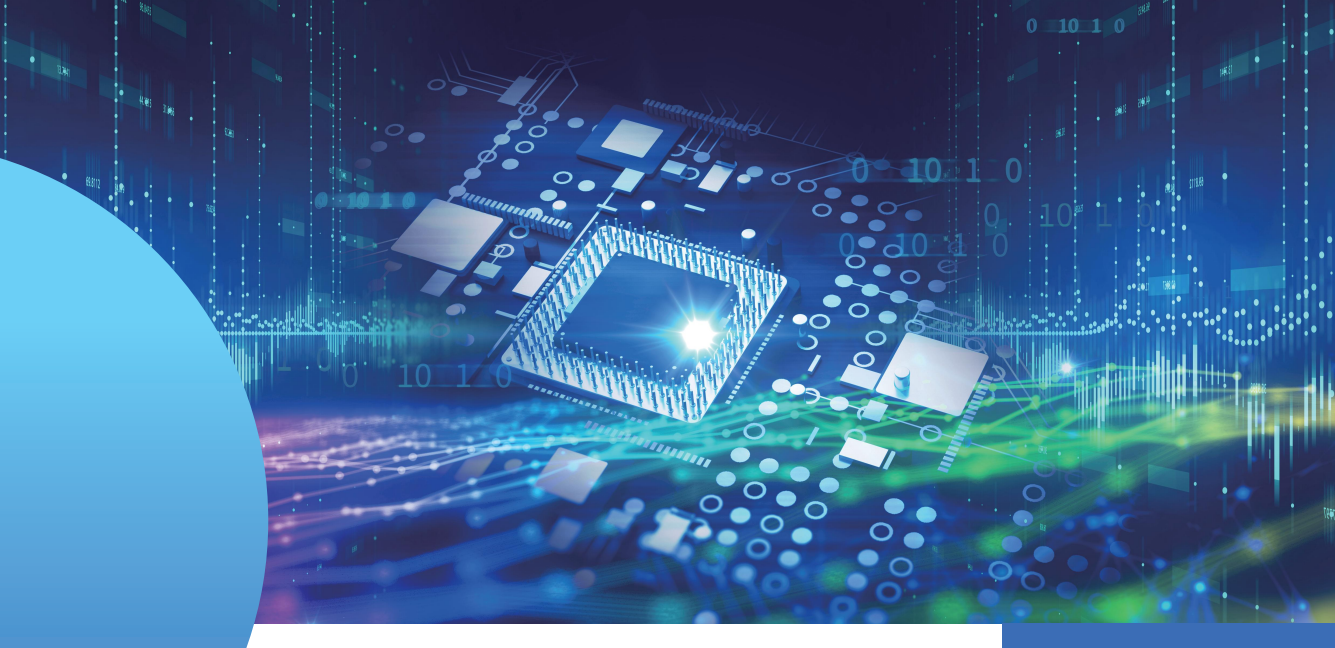
In terms of downstream clients, Chipone's key clients include BOE, TCL, HKC, Leyard, Unilumin, Absen, LG Display, and other domestic and foreign famous panel factories/LED screen factories. Meanwhile the products are widely used in TCL, LG, Samsung, OPPO, vivo, Xiaomi and other domestic and foreign famous terminal enterprises and have gained long-term recognition from many large and well-known clients from the whole value chain in the field of display business.

Wafer Fabrication Packaging and Testing

Panel Factories Screen Factories

Key Terminal Clients

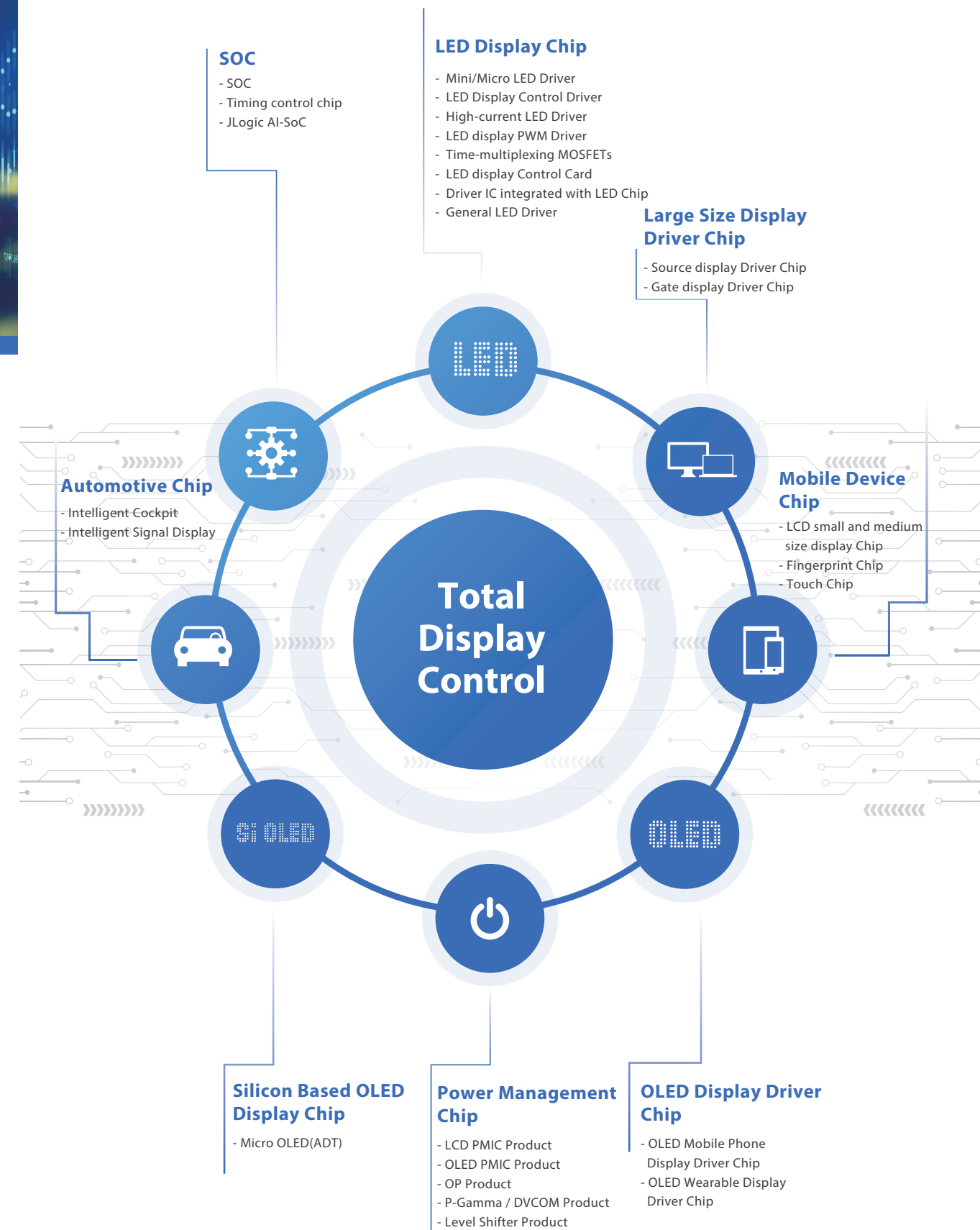




Product Solutions



Total display control solutions for the whole field



Products



LED Display Solutions

- Mini/Micro LED Driver
- LED Display Control Driver
- High-current LED Driver
- LED display PWM Driver
- Time-multiplexing MOSFETs
- LED display Control Card
- Driver IC integrated with LED Chip
- General LED Driver

Mini / Micro LED Driver

Name	Product Introduction	Number of output channels	Built-in MOS	Channel output current	Scanning support	Refresh rate	Current accuracy	GCLK	Packaging
ICND2200	Mini / Micro LED Driver	24	16PMOS	0.5-25mA	1-64 scan	3840Hz+	<±2%	PLL	QFN52
ICND2260	Mini / Micro LED Driver	120	48NMOS	0.1-9.6mA	1-96 scan	7680Hz+	<±1%	PLL	BGA225
ICND2270		48	30NMOS	0.25-16mA	1-90 scan	7680Hz+	<±1%	PLL	QFN88
ICND3230		360	180NMOS	0.1-15mA	1-90 scan	15360Hz	<±1%	PLL	BGA656
ICND3289	RGBX pixel multiplexing Dedicated common Cathode Driver	384	NA	0.1-15mA	1-90 scan	15360Hz	<±1%	PLL	BGA569

LED Display Control Driver

Name	Product Introduction	Interface	Input resolution	Output port	Output load	SPR	HDR	Packaging	Screen type
ICND6603	New LED commercial display control applications scheme, high degree of integration, image algorithm, Strong processing capacity, high-speed data interface, which can simplify the control system and improve stability	HDMI1.4	1920x1080 @60Hz	Ethernet	960x540@60Hz	✓	✓	BGA224 QFN104 QFN72	2K
ICND6620	4K video cutting processing, strong image algorithm processing ability, High-speed data interface	HDMI2.0 DP1.4	3840x2160 @60Hz	HDMI	960x2160@60Hz	✓	✓	BGA216	4K

High-current LED Driver

Name	Product Introduction	Output channels	Channel output current	Scan	Refresh rate	Current accuracy	GCLK	Packaging
ICND8390	High current constant current output LED Driver	16	2-90mA	1-32S	960Hz	±3%	OE	SSOP24/QFN24
ICND8392	High current constant current output LED Driver	16	1-90mA	1-16S	3840Hz+	±2%	External	SSOP24/QFN24/ TSSOP24/SOP24



LED Display PWM Driver

Name	Product Introduction	Number of output channels	Driving type	Channel output current	Scanning support	Refresh rate	Current accuracy (between channels)	GCLK	Packaging
ICND1065L	Constant current output LED Driver	16	Common Anode	0.5-30mA	1-64scan	3840Hz+	<±2%	PLL	SSOP24
ICND1065S	Constant current output LED Driver	16	Common Anode	0.5-25mA	1-64scan	3840Hz+	<±2%	PLL	SSOP24
ICND1068	Constant current output LED Driver	16	Common Anode	0.5-35mA	1-128scan	3840Hz+	<±2%	PLL	SSOP24
ICND1069	Constant current output LED Driver	16	Common Cathode	1-18mA	1-64scan	3840Hz+	<±2%	PLL	SSOP24/QFN24
ICND2055S	Constant current output LED Driver	16	Common Anode	0.5-35mA	1-32scan	3840Hz+	<±1.5%	PLL	SSOP24/QFN24
ICND2150S	Constant current output LED Driver	16	Common Anode	0.5-30mA	1-16scan	3840Hz+	<±2%	External	SSOP24
ICND2152	Constant current output LED common Anode Driver	16	Common Anode	1-30mA	1-16scan	3840Hz/7680Hz	<±2%	External	SSOP24
ICND2153	Constant current output LED Driver	16	Common Anode	0.5-25mA	1-32scan	3840Hz	<±2%	GCLK	SSOP24/QFN24
ICND2153S	Constant current output LED Driver	16	Common Anode	0.5-30mA	1-32scan	3840Hz+	<±1.5%	PLL	SSOP24/QFN24
ICND2165	High performance constant current output LED Driver	16	Common Anode	0.5-25mA	1-64scan	3840Hz+	<±1.5%	PLL	SSOP24/QFN24
ICND2169	Constant current output LED Driver	16	Common Cathode	0.5-18mA	1-64scan	3840Hz+	<±2%	PLL	SSOP24/QFN24
ICND3065	High grey level constant current output LED common Anode Driver	16	Common Anode	0.5-25mA	1-64scan	7680Hz	<±1.25%	PLL	SSOP24/QFN24
ICND3069	High grey level constant current output LED common cathode Driver	16	Common Cathode	0.35-20mA	1-64scan	7680Hz	<±1.25%	PLL	SSOP24/QFN24
ICND3150S	Constant current output LED Driver	16	Common Anode	1-50mA	1-16scan	3840Hz+	<±2%	GCLK	SSOP24/QFN24

Time-multiplexing MOSFETs

Name	Product Introduction	Output channels	Channel current	Current impedance	Type of decoding	Eliminate ghosting	Lamp bead protection	Packaging
ICND2015	Time-multiplexing MOSFETs	2PMOS	3A	75mΩ	/	/	/	/
ICND2017	Time-multiplexing MOSFETs	4PMOS	2.5A	100mΩ	138 decoding	✓	✓	SSOP16/QFN16
ICND1012	Time-multiplexing MOSFETs	8PMOS	2.2A	120mΩ	138 decoding	✓	✓	SOP16
ICND2013	Time-multiplexing MOSFETs	8PMOS	2.5A	100mΩ	138 decoding	✓	✓	SOP16
ICND3015	Time-multiplexing MOSFETs	2NMOS	3.5A	65mΩ	/	✓	/	SOP8
ICND2018	Time-multiplexing MOSFETs	8PMOS	2.5A	100mΩ	Serial decoding	✓	✓	SOP16/QFN16
ICND2018S	Time-multiplexing MOSFETs	8PMOS	3A	90mΩ	/	✓	✓	SOP16
ICND1018	Time-multiplexing MOSFETs	8PMOS	2.2A	120mΩ	Serial decoding	✓	✓	SOP16
ICND3018	Time-multiplexing MOSFETs	16PMOS	2A	130mΩ	Serial decoding	✓	✓	SSOP16/QFN16
ICND1028	Time-multiplexing MOSFETs	16PMOS	1.6A	140mΩ	Serial decoding	✓	✓	SSOP24
ICND2019	Time-multiplexing MOSFETs	8NMOS	2.5A	100mΩ	Serial decoding	✓	✓	SOP16/QFN16
ICND1039	Time-multiplexing MOSFETs	16NMOS	1.5A	140mΩ	Serial decoding	✓	✓	SSOP24/QFN24
ICND3019	Time-multiplexing MOSFETs	16NMOS	1.5A	130mΩ	Serial decoding	✓	✓	SSOP16/QFN16

LED display Control Card

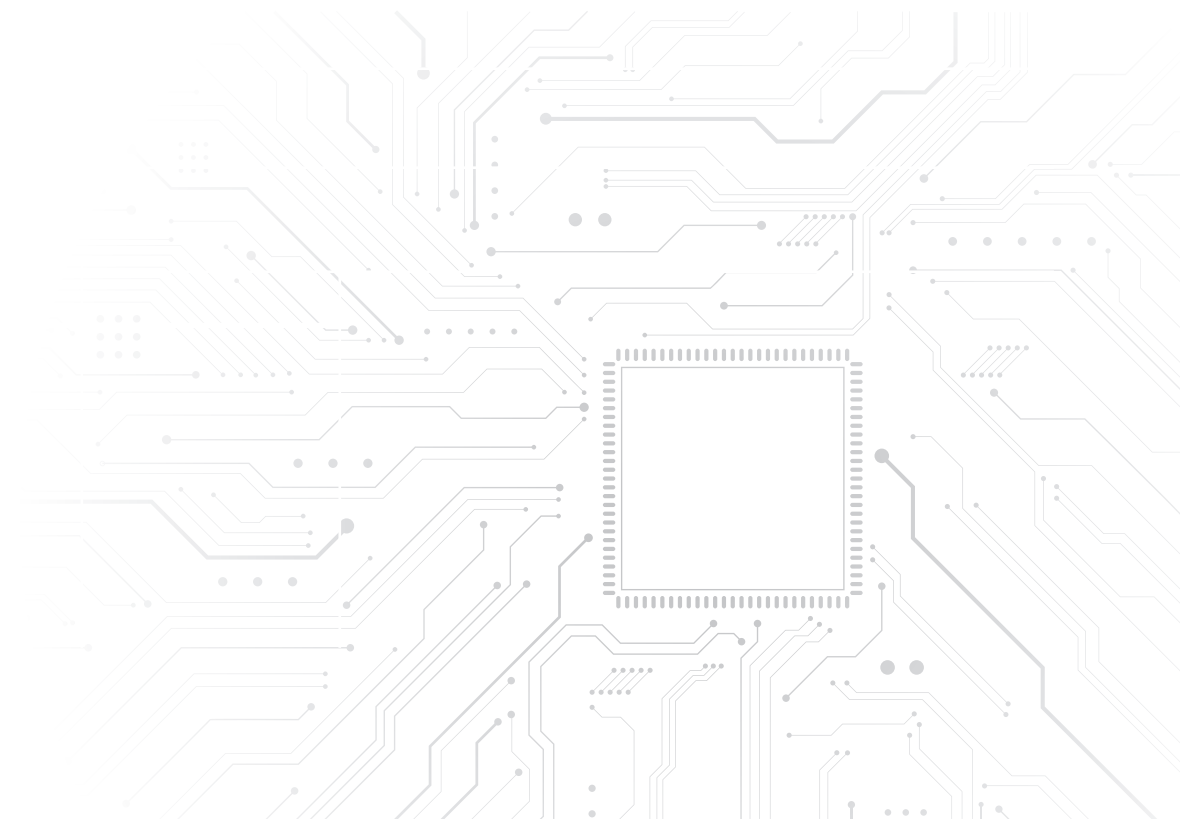
Name	Product Introduction	Input port	Input load	Output port	Output load	HDR	Configured interfaces	Dimension	Screen type
K2DevBoard	HDMI 1.4 input 5G bandwidth output Ethernet or USB port for configuring	HDMI	1920x1080 @60Hz	Ethernet	/	✓	Ethernet USB	83mm*53mm	2K
ControlRx40	HDMI 1.4 input 5G bandwidth output Ethernet or USB port for configuring	High-density connectors	1920x1080 @60Hz	High-density connectors	960x540@60Hz	✓	/	67mm*45.3mm	2K
S7508	HDMI/Ethernet input Ethernet output for cascading 8xHUB75E output port Type C port for configuring	HDMI/ Ethernet	1920x1080 @60Hz	Ethernet	512x512@60Hz	✓	Type C	144mm*91.5mm	2K

General LED Driver

Name	Product Introduction	Output Channels	Output Current	Scan	Refresh Rate	Current Accuracy	Packaging
ICND20385	Constant current output LED Driver	16	0.5-45mA	1-32S	1920Hz	±2%	SSOP24/QFN24
ICND2046		16	0.5-45mA	1-32S	1920Hz	±2%	SSOP24
ICND2047		16	0.5-45mA	1-64S	3840Hz	±2%	SSOP24
ICND2049	Constant current output with common Cathode LED Driver	16	0.5-25mA	1-32S	1920Hz	±2%	SSOP24
ICND2126	General Constant current output LED Driver	16	8-100mA	/	960-1920Hz	±2%	SSOP24

Driver IC integrated with LED Chip

Name	Product Introduction	Output channels	Driving type	Channel output current	Scan	Refresh rate	Current accuracy	GCLK	Packaging
ICND3103	Driver IC integrated with LED Chip	3	Common Anode	5/12/20mA	/	4K	±2.5%	/	/



Products



Large Size Display Driver Chip Solutions

- Source Display Driver Chips
- Gate Display Driver

Source Display Driver Chips

Name	Resolution	Refresh rate	Colour depth	Packaging	Interface	Screen type
ICNL9390S	QHD/4K	300/120Hz	8bit	COF	CSPI/iSP	TV/MNT
ICNL9381S	4K/8K	60/165Hz	8bit	COF	CEDS	TV
ICNL9392	4K	120Hz	8bit	COF	USI-T	TV
ICNL9391	4K/8K	240/60Hz	8bit	COF	CSPI/iSP	TV
ICNL9383	QHD/4K	360/60Hz	8bit	COF	iSP	MNT
ICNL9690	QHD/4K	300/120Hz	8bit	COF	CSPI/iSP	TV/MNT
ICNL9351	4K/8K	120/60Hz	8bit	COF	EPI	TV
ICNL9381	UHD	60/120Hz	8bit	COF	CEDS	TV
ICNL9390	FHD/QHD	360/240Hz	8bit	COF	CSPI/iSP	TV/MNT
ICNL9382	4K/8K	60/165Hz	8bit	COF	CHPI	TV
ICNL9309	FHD/QHD	200/75Hz	8bit	COF	mini-LVDS	TV/MNT
ICNL9310	FHD/QHD	200/75Hz	8bit	COF	mini-LVDS	TV/MNT
ICNL9312	HD	60Hz	8bit	COF	mini-LVDS	TV
ICNL9305S	HD/FHD	60Hz	8bit	COF	mini-LVDS	TV
ICNL9308S	HD/FHD/QHD	60/144Hz	6bit	COF	mini-LVDS	MNT
ICNL9350	FHD	60Hz	6bit	COF	EPI	MNT
ICNL9336	HD	60Hz	6bit	COG	mini-LVDS	NB
ICNL9337	FHD/WU	60Hz	6bit	COG	iSP	NB
ICNL9681S	4K/8K	60/165Hz	8bit	COF	CEDS	TV
ICNL9638	FHD/WU	60Hz	8bit	COG	iSP	NB
ICNL9637	FHD/WU	480/60Hz	8bit	COG	iSP	NB
ICNL9338	FHD	480Hz	8bit	COG	iSP	NB

Gate Display Driver Chips

Name	Resolution	Refresh rate	Colour depth	Packaging	Interface	Screen type
ICNL9522	FHD	60Hz	N/A	COF	N/A	TV
ICNL9510	FHD	60Hz	N/A	COF	N/A	TV
ICNL9513	FHD	60Hz	N/A	COF	N/A	MNT
ICNL9556	HD	60Hz	N/A	COG	N/A	NB

Products



Mobile Device Chip Solutions

- LCD Small and Medium Size Display Chips
- Fingerprint Chips
- Touch Chips

LCD Small and Medium Sized Display Chips

Name	Product Introduction	Resolution	Display refresh rate	Interface protocols	Application size(inch)	Colour depth	Features	Maximum speed	Package form	Application terminals	
ICNL9911C	Support for display touch all-in-one TDDI technology	HD/HD+	720*1760	90Hz	MIPI/SPI	5"-7"	8bit	High refresh rate of 90Hz	950Mbps	COG	High screen-to-body ratio LCD touch driver panels
ICNL9916		HD/HD+	720*1760	120Hz	MIPI/SPI	5"-7"	8bit	120Hz high refresh rate narrow bezel low power consumption	1.2Gbps	COG	
ICNL9916C		HD/HD+	720*1760	120Hz	MIPI/SPI	5"-7"	8bit	120Hz high refresh rate with narrow bezel	1.2Gbps	COG	
ICNL9916X		HD/HD+	720*1760	120Hz	MIPI/SPI	5"-7"	8bit	120Hz high refresh rate, narrow bezel, low power consumption, low cost	1.3Gbps	COG	
ICNL9922C	Support LTPS display touch all-in-one TDDI technology	FHD/FHD+	1080*2520	120Hz 144Hz	MIPI/SPI	5"-7"	8bit	144Hz high refresh rate	1.3Gbps	COG/COF	LCD touch driver panels
ICNL9951R	Support for display touch all-in-one TDDI technology	WXGA+	800*1280*2	120Hz	MIPI/SPI	8"-12"	8bit	Supports 2 cascade/ high brush/ active pen	1.2Gbps	COG/COF	Tablet related products
ICNL9952		WXGA+	800*1280*2	120Hz 144Hz	MIPI/SPI	8"-13"	8bit	Supports 2 cascade/ high brush/ active pen/ narrow bezel technology	1.2Gbps	COG/COF	

Fingerprint Chips

Name	Product Introduction	Packaging	Shape	Sensing area	Aera Array	Communication methods	Supply voltage	Communication Electrical Level
ICNF7318	2.1mm side fingerprint	LGA	Rectangle	1.6mm*6.6mm	38*155@598dpi	SPI	2.8V~3.3V	1.8V
ICNF7319		LGA	Rectangle	1.6mm*8.0mm	38*188@598dpi	SPI	2.8V~3.3V	1.8V
ICNF6156	optical Under-Display fingerprint	COB	/	1.8mm*8.0mm	172*216@7.2um	SPI	2.8V~3.3V	1.8V/VDD
ICNF7339	Back fingerprint	LGA	Round Square	2.72mm*3.4mm	64*80@598dpi	SPI	2.8V~3.3V	1.8V/VDD
ICNF7332	industry fingerprint	LGA	Round Square	3.2mm*4.0mm	64*80@508dpi	SPI	2.8V~3.3V	1.8V/VDD
ICNF7352	industry fingerprint	LGA	Round Square	4.4mm*5.6mm	88*112@508dpi	SPI	2.8V~3.3V	1.8V/VDD

Touch Chips

Name	Product Introduction	Number of channels	Reporting rate	Interface protocols	Application dimensions	Support for TP types	Packaging	Application terminals
ICNT8952	LCD external touch chip, strong anti-interference and high cost effective	26TX*14RX	≤120Hz	I2C	2.0"~8.0"	GFF/GG/LCD On-Cell	QFN52	Tablet, Security, Home appliance, Industrial control, Rear-mounted vehicle and other products
ICNT8962		17TX*30RX 16TX*31RX 15TX*32RX	≤120Hz	I2C	4.5"~6.5"	GFF/GG/LCD On-Cell	QFN58	Mobile phones
ICNT8918	OLED wearable touch chip with high signal-to-noise ratio, low power consumption and flexible channel configuration	8TX*8RX 7TX*9RX 6TX*10RX 5TX*11RX 4TX*12RX	≤120Hz	I2C	≤2.2"	Rigid OLED On-cell Flexible OLED Add-On	WLCSP	Wearable devices
ICNT8928	OLED mobile touch chip with high reporting rate and full functionality	8TX*8RX 7TX*9RX 6TX*10RX 5TX*11RX 4TX*12RX	≤120Hz	I2C	≤2.2"	Rigid OLED On-cell Flexible OLED Add-On	WLCSP	Wearable devices
ICNT9268	OLED mobile touch chip with high reporting rate and full functionality	21TX*42RX	≤480Hz	I2C/SPI	5.0"~7.8"	Flexible OLED On-cell Rigid OLED On-cell	BGA	Flexible screen phones, Folding phone products
ICNT9288	OLED Folding& TPC& NB Touch	42TX*84RX	≤240Hz	I2C/SPI	8"~14"	Flexible OLED On-cell Rigid OLED On-cell	BGA	Flexible screen phones, Folding phone products& TPC&NB products

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Products



OLED Display Driver Chip Solutions

- OLED Mobile Phone Display Driver Chips
- OLED Wearable Display Driver Chips

OLED Mobile Phone Display Driver Chips

Name	Product Introduction	Resolution	Refresh rate	LTPO/LTPS	MUX	RAM	Interface	Packaging
ICNA3512	Supports high refresh, low power, cascade, CUP Delivered in volume production	1280*2800 (FHD+)	FHD+ @144Hz	LTPO\LTPS	1:1,1:2	Dual RAM	MIPI-C phy/-D phy	COP
ICNA3511A	High refresh OLED mobile phone display driver chip	1280*2560/ 1200*2800 (FHD+)	FHD+ @120Hz	LTPS	1:1,1:2	Dual RAM	MIPI-C phy/-D phy	COP
ICNA3520	High refresh, low power consumption, cascade, CUP	1284*2800 (FHD+)	FHD+ @144Hz	LTPO\LTPS	1:1,1:2	Dual RAM	MIPI-C phy/-D phy	COP
ICNA3508A	High refresh and small size	1080*2520 (FHD)/ 1280*2800(FHD+)	FHD+ @144Hz	LTPS	1:2	Single RAM	MIPI-D phy	COP
ICNA3508		1080*2520 (FHD)	FHD @120Hz	LTPS	1:2	Single RAM	MIPI-D phy	COP
ICA3509	MULTI frame OD, 3D LUT,new demura, temp compasation, LTPO2.0, 8T-LTPS	1280*2800(FHD+)	FHD+ @144Hz	LTPO2.0, 8T-LTPS		Single RAM	MIPI-C phy/-D phy	COP
ICNA3515	Support partial update, area crosstalk, power optimiazation, cascade, FIAA	1320*2920 (FHD+)	FHD+ @144Hz	LTPO 2.0, LTPO 3.0\ 8T-LTPS		Dual RAM	MIPI-C phy/-D phy	COP

OLED Wearable Display Driver Chips

Name	Product Introduction	Resolution	Refresh rate	Features	Interface	Packaging	Application terminals
ICNA3310	OLED wearable watch/smart band display driver chip	480RGB*480	1~60Hz, step1Hz	Round/Notch, SCC	MIPI-D phy SPI/QSPI/MCU	COF	Watch wearable devices
ICNA3311		480RGB*480	1~60Hz, step1Hz	Round/Notch, SCC, CGM, PCD	MIPI-D phy SPI/QSPI/MCU	COF	Watch wearable devices
ICNA3306	OLED wearable smart band display driver chip	240RGB*360	1~60Hz, step1Hz	Round/Notch, SCC, CGM, PCD	MIPI-D phy SPI/QSPI/MCU	COG/COF	Wristband wearables
ICNA3320	OLED High-end TDDI wearable display driver chip	480RGB*480+	0.1~60Hz, step0.1Hz	LTPO/LTPS, Smart AOD	MIPI-D phy SPI/QSPI/MCU	COP/COF	Smart Home Watch wearable devices
ICNA3312	OLED High-end wearable display driver chip	480RGB*480+	0.1~60Hz, step0.1Hz	LTPO/LTPS, Smart AOD	MIPI-D phy SPI/QSPI/MCU	COF	Smart Home Watch wearable devices

Products



Power Management Chip Solutions

- LCD PMIC Product
- OLED PMIC Product
- OP Product
- P-Gamma / DVCOM Product
- Level Shifter Product

		PMIC LCD PMIC Product Range									
Name	Product Introduction	Application terminals	AVDD output voltage	DVDD channels	HAVDD architecture	VGH/VGL architecture	VCOM channels	Gamma channels	Level shifter	Packaging	Application terminals
iML8209	LCD Mobile Bias PMU	2.5~4.8V	±4.5~6V	NA	NA	NA	NA	NA	NA	DFN12-2.4x1.5	LCD Mobile
ICN68116	LCD Tablet Bias PMU	2.7~5.5V	±4~6.5V	NA	NA	NA	NA	NA	NA	W CSP	LCD Tablet
iML7525		2.7~5.5V	±4~6.5V	NA	NA	NA	NA	NA	NA	DFN12-3x3	
iML8875	LCD NB / Tablet Bias PMU	2.5~5.5V	4.5~11V	1CH	OP	NA	1CH	NA	NA	TQFN20-4X4	LCD NB/Tablet
iML8882		2.5~5.5V	±4~6.5V	2CH	NA	CP/CP	1CH	NA	NA	WQFN28-3.5x5.5	
iML8884		2.5~5.5V	7~13.5V	3CH	OP	Bridge	1CH	2CH	NA	FCQFN28-3.5x3.5	
iML8999	LCD NB / Tablet Bias PMU 2in1 PMIC+P-Gamma	2.5~5.5V	7~13.5V	3CH	OP	Boost/CP	1CH	2CH	NA	FCQFN28-3.5x3.5	LCD NB/Tablet
iML8997	LCD NB / Tablet Bias PMU 3in1 PMIC+P-Gamma+ Level shifter	2.8~6V	7.5~11.5V	3CH	OP	Bridge	1CH	2CH	8CH	QFN42-3.5x9	LCD NB/Tablet
iML8940	LCD TV / MNT Bias PMU	8~14V	13.5~18.4V	2CH	Buck	CP/CP	NA	NA	NA	TQFN40-6x6	LCD TV/MNT
iML8943		9~14V	13.69~19.02V	2CH	OP	VGH: Boost/CP VGL: Inverting/CP	NA	NA	NA	VQFN40-5x5	
iML8973B	LCD TV / MNT Bias PMU 2in1 PMIC+P-Gamma	8~18V	13.5~19.8V	1CH	Buck	CP/CP	1CH	10CH	NA	TQFN40-5x5	LCD TV/MNT
iML8982A		8.6~14.7V	11~18V	3CH	Buck	Boost/Inverting	1CH	4CH	NA	WQFN52-6x6	
iML8974A		8.6~14.7V	13.5~19.8V	3CH	Buck	Boost/Inverting	1CH	4CH	NA	WQFN52-6x6	
iML8947		8.6~14.7/ 4.3~6V	13.5~19.8V	1CH	Buck	VGH: Boost/CP VGL: Inverting/CP	2CH	14CH	NA	QFN4.5*6.5	
iML8978		8~14.7V	11~19.2V	3CH	Buck	CP/CP	3CH	14CH	NA	VQFN56-7x7	
iML1946/A	LCD TV / MNT Bias PMU 3in1 PMIC+P-Gamma+ Level shifter	8~18V	13~19.2V	3CH	Buck	Boost/Inverting	3CH	19CH	12CH	QFN82-12x8	LCD TV/MNT
iML1976A		8~14.7V	13~19.2V	3CH	Buck	CP/CP	3CH	14CH	12CH	VQFN72-8x8	
iML8948		8~18V	13~19.2V	3CH	Buck	Boost/Inverting	3CH	14CH	19CH	QFN82-12x8	
iML8986		8V~14V	5.6V~19V	3CH	NA	Boost/Inverting	1CH	2CH	12CH	QFN60-7x7	

PMIC OLED PMIC Product Range

Name	Product Introduction	Application terminals	Input voltage range	ELVDD output voltage range	ELVSS output voltage range	Maximum load carrying capacity	AVDD output voltage range	AVDD load carrying capacity	VINT output voltage range	VINT load carrying capacity	Packaging
iML7522	AMOLED PMU	Wearable	2.9~5.5V	2.8~5.3V	-0.6~-5V	80mA	NA	NA	NA	NA	WLCSP-16
iML 7523		Wearable	2.5~5.5V	2.8~4.6V	-0.6~-4.6V	150mA	2.8~3.3V	30mA	NA	NA	WLCSP-21
iML7524		Mobile	2.9~5V	4.6~5V	-1.4~-6V	650mA	5.5~7.9V	150mA	NA	NA	WLCSP-36
iML7569		Mobile	3~5V	2~3V	-2~-12V	1200mA	5.5~7.9V	250mA	DVDD: 0.8~1.3V VGL: -5~-15V	DVDD: 400mA VGL: 20mA	WLCSP-56
iML7531		Mobile/Tablet	2.9~4.6V	4.6~5V	-1.4~-6V	1000mA	5.5~7.9V	100mA	NA	NA	WQFN32-4x4
iML7533		NB/Tablet	6V/8~21V	4~5.5V	-2~-6V	2000mA	5.5~7.6V	300mA	VINT: -2~-6V	VINT: 50mA	QFN40-3.5x6.5
iML7537		NB/Tablet	6V/8~21V	2.4~5.4V	-2.2~-12V	2000mA	5.5~7.6V	300mA	VINT: -2~-6V	VINT: 50mA	QFN40-3.5x6.5

OP Product Range

Name	Product Introduction	AVDD voltage range	Number of channels	Peak drive current	Static current / Per CH	Slew Rate	BW	ESD-HBM	Packaging
iML2210	Single channel operational amplifiers	5~20V	1CH	1000mA	1.3mA	25V/us	10MHz	3KV	TDFN/MSOP
iML2211		5~20V	1CH	2000mA	5mA	40V/us	35MHz	4KV	TDFN/MSOP
iML2122	Dual channel operational amplifiers	5~20V	2CH	600mA	1.2mA	50V/us	30MHz	2KV	TDFN/MSOP
iML2228		4.5~19V	4CH	1300mA	3mA	45V/us	35MHz	4KV	TDFN/MSOP
iML2240	Four channel operational amplifiers	4.5~20V	4CH	600mA	1.6mA	30V/us	35MHz	4KV	TSSOP13
iML2240B		4.5~20V	4CH	1000mA	3mA				TSSOP14
iML2242		4.5~20V	4CH	1300mA	3mA	45V/us	35MHz	4KV	TSSOP14

Level Shifter Product Range

Name	Product Introduction	VGH/VGL working range	DVDD working range	Clock Phase	Charge sharing	OCP	Rising/Falling Slew Rate	Communication protocols	Packaging
iML7263	14CH High voltage Level Shifter output	-20~35V	NA	8Phase	supporting	supporting	50V/us 50V/us	NA	QFN28-4X4
iML7264	8CH High voltage Level Shifter output	-15~40V	NA	4Phase	supporting	supporting	95V/us 65V/us	NA	QFN24-3x3
iML7278	13CH High voltage Level Shifter output	-15~40V	2.6~5.5V	8Phase	NA	supporting	100V/us 100V/us	NA	QFN32-4x4
iML7282	14CH High voltage Level Shifter output	-20~45V	2.6~5.5V	8Phase	supporting	supporting	60V/us 60V/us	I2C	QFN32-4x4
iML7272A/B	16CH High voltage Level Shifter output	-18~40V	2.6~5.5V	10Phase	NA	supporting	1000V/us 1000V/us	I2C	QFN32-4x4
iMI 7268A	19CH High voltage Level Shifter output	-10~20V	2.6~5.5V	10Phase with MUX	supporting	supporting	100V/us 100V/us	I2C	QFN32-4x4
iML7276	19CH High voltage Level Shifter output	-20~45V	2.6~5.5V	12Phase	supporting	supporting	1000V/us 1000V/us	I2C	QFN40-5x5

P-Gamma/DVCOM Product Range

Name	Product Introduction	AVDD working range	DVDD Working range	Number of Gamma channels	Gamma load carrying capacity	Number of VCOM channels	VCOM load carrying capacity	Communication protocols	Packaging	Application terminals
iML7924C	14CH 10Bit P-Gamma 1CH 7Bit P-VCOM	6.5~18V	2.9~3.6V	14CH	75mA	1CH	140mA	I2C	TQFN24-4x4	LCD NB/MNT/TV
iML7942	4CH 10Bit P-Gamma 1CH 10Bit P-VCOM	9~20V	2.7~3.6V	4CH	NA	1CH	NA	I2C	TQFN20-4x4	LCD NB/MNT/TV
iML7972B	7Bit 1CH P-VCOM	6~18V	2.6~3.6V	NA	NA	1CH	250mA	I2C	DFN8-3x3	LCD NB/MNT/TV

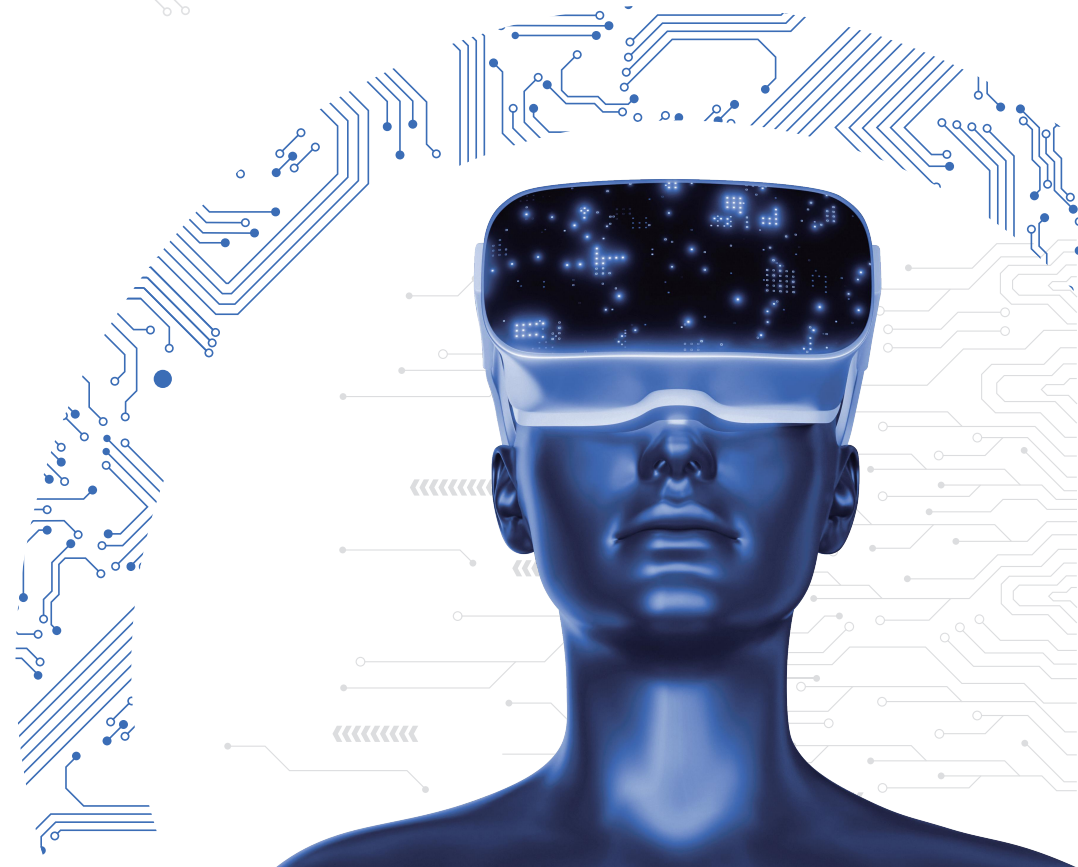
Products



Si-Based OLED Display Chip Solutions

- Micro OLED (ADT)

Name	Product Introduction	Micro OLED (ADT)						
		Zone AA dimensions	Resolution	PPI	Interface	Maximum frame rate	Maximum brightness	Maximum voltage
ICNU1210	0.5inch 1600RGB x 1200	0.5 inch	1600x1200	4,032	MIPI DPHY	120Hz	3,000nit	8V
ICNU1510	1.3inch 3552RGB x 3840	1.3 inch	3552x3840	4,032	MIPI DPHY+CPHY	90Hz	5,000nit	8V
ICNU1218	0.49inch 1600RGB x 1200	0.49 inch	1600x1200	4,032	MIPI DPHY	120Hz	3,000nit	8V
ICNU1221	0.49inch 1920RGB x 1080	0.49 inch	1920x1200	4,536	MIPI DPHY	120Hz	3,000nit	8V



Products



Automotive Chip

- Intelligent Cockpit
- Intelligent Signal Display

		Intelligent Cockpit		
Name	Introductions	Application	Features	Parameters
ICNM7801Q	Automotive bridge chip with local dimming and OSD Function AEC-Q100	Central control screen Dashboard screen	Domestic automotive bridge chip	input: eDP in output: LVDS out Single chip 8K1K+3200zone 2cascades support 16K1K+6400zone
ICNM7801A		Central control screen Dashboard screen	Domestic automotive bridge chip	input: LVDS in output: LVDS out Single chip 4K1K +1600 zone
ICNL9971	Automotive TDDI	Central control screen Dashboard screen	Domestic TDDI driver chips	A-SI/LTPS/IGZO LCD 3 chips cascade, LVDS interface TDDI chip AEC-Q100 Grade2 1/3/5 power mode
iML9880	Automotive PMIC	LCD screen power	High efficiency high load and high voltage specifications	Positive and negative voltage 15V high conversion efficiency used in LCD display AEC-Q100 Grade2 2/4 power mode
iML9883	Automotive PMIC	LCD screen power	High efficiency high load and high voltage specifications	Positive and negative voltage 15V high conversion efficiency used in LCD display AEC-Q100 Grade2 5 power mode
iML9885	Automotive PMIC	LCD screen power	High efficiency high load and high voltage specifications	Positive and negative voltage 15V high conversion efficiency used in LCD display 7power mode AEC-Q100 Grade2
ICND8808	Automotive Time-Multiplexing Backlight LED Driver	LCD Backlight	Multi-zone/Multi-mode dimming High brightness and High dynamic contrast LED open&short circuit detection EMI Optimization	Channel Current 1-60mA, Current Accuracy±2%, AEC-Q100 Grade1+ASILB 16 Channels
ICND8800	Automotive Scan MOSFET Controller	LCD Backlight	Multi-zone/Multi-mode dimming High brightness and High dynamic contrast LED open&short circuit detection EMI Optimization	AEC-Q100 Grade1+ASILB 2/4 Scans

		Intelligent Signal Display					
Name	Introductions	Application	Channel	Channel Current	Current Accuracy	AECQ100	ISO26262
ICND7001	Automotive LED Driver Chip	Pixelated Taillights Ambient Light	48 Channel	0.5-25mA	±3%	Grade 1	-
ICND7002	Automotive LED Driver Chip		24 Channel	1-50mA	±3%	Grade 1	-
ICND7201	Automotive 8-channel power switch for LED Display		8 MOSFET	2.5A	-	Grade 1	-
ICND7301	Automotive PWM Constant Current LED Driver with Power Switches		48 Channel+ 16 MOSFET	0.25-32mA	±1.5%	Grade 1	ASIL B



Products



SOC

- SOC
- Timing control chip
- JLogic AI-SoC

SOC										
Name	Introduction	Application	Features	Colour	Interfaces	HDR	VRR	OD	Refreshrate	Resolution
ICNM8001xx	Monitor scaler IC for QHD panel	Desktop / Portable / Industrial monitor, Adapter	multi high-speed interfaces	8/10bit	input: HDMI 2.0*2port/ DP 1.4*2port/ Audio*1port output: LVDS*4port/eDP 1.4	HDR10	✓	✓	max: 2560*1440 @100Hz	QHD (2560*1440)
ICNM8501xx	Monitor scaler IC for 4K panel								3840*2160 @ 60Hz/1920*1080 @ 144-240Hz	4K (3840*2160)
ICNM8301xx	Monitor scaler IC for QHD panel								max: 2560*1440 @75Hz	QHD (2560*1440)
ICNM7601xx	Monitor scaler IC for QHD panel								max: 2560*1440 @75Hz	QHD (2560*1440)
ICNM74x1	Monitor scaler IC for FHD panel								max: 1920*1200 @120Hz	FHD (1920*1200)
ICNM7301	Converter IC HDMI to VGA	Adapter Cable	Video transfer/ Small area/ Low consumption	/	input: HDMI 1.4 output: VGA				60Hz	FHD (1920*1200)

Timing control chip						
Name	Resolution	Refreshrate	Color depth	Packaging	Interfaces	Screen Types
ICNC65	1366*768	60Hz	6/8bit	QFN48	input:LVDS ouput:mini-LVDS	TV
ICNC66	1920*1200	100Hz	6/8bit	QFN68	input:LVDS ouput:mini-LVDS	TV
ICNC81	1920*1200	100Hz	6/8bit	TQFP64	input:LVDS ouput:mini-LVDS	MNT
ICNC91	1920*1200	60Hz	6/8bit		input:1.2 ouput:mini-LVDS	NB

JLogic AI-SoC						
Name	Production	Resolution	Field	Internal operational unit	HD video Interfaces	AI algorithms
JLV2600	new generation of AI-PQ image quality enhancement processor	4K @144Hz 8K @ 60Hz	Smart display, machine vision, medical imaging equipment, edge computing, large-screen control, vehicle CMS, etc	Image Computing Unit: 1) Six-core NNE engine, 32T 2) Dual-core DSP engine 3) Video codec: H.264/H.265, 4K120fps	Video Input Interface: 1) MIPI_CSI 1~4 channels, 4K60Hz maximum 2) Dual DP1.4/eDP, 4K144/8K60Hz maximum 3) VBO-like interface, 16Lane, 4K144Hz maximum	1) AI-PQ image quality enhancement: AI-ISP, infinite scaling, Local Dimming, HDR, etc 2) AI detection and recognition: medical auxiliary diagnosis, defect detection, etc

Development History

