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TOP DISPLAY OPTOELECTRONICS

INTER-LINK DISPLAY

PRODUCT
BROCHURE

Top Display Optoelectronics (TDO) is a professional display supplier that integrates R&D, manufacturing, and sales of display modules ranging from 0.32 inches to 55 inches. TDO was founded in Shanghai by a team of engineers boasting over 20 years of experience in R&D and operations. Leveraging top-notch innovation and operational expertise, we proudly operate an automated display module production facility in Shenzhen. Additionally, we have developed our proprietary software, Giraffe IDE, for UI design.

We are committed to become the leader in LCD/OLED display, intelligent display, and near-eye displays. With distributors across more than 40 countries, our displays are widely embraced in various markets such as smart homes, IoT, industrial control, and the medical sector.

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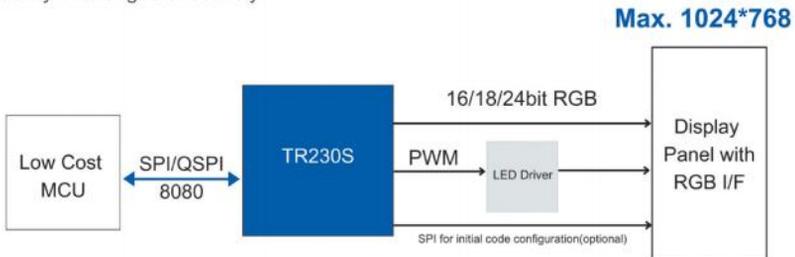
Inter-link Display

For seamless connections and foster an integrated display ecosystem, TDO's inter-link product line facilitates functional adaptation between modules and customer motherboards via inter-link solutions. This product line includes QSPI/USB/HDMI/Type-C/DP solution. With a well-developed technology platform, it can effectively support display solutions for TFT-LCD, AMOLED, Si-OLED and other display modules.

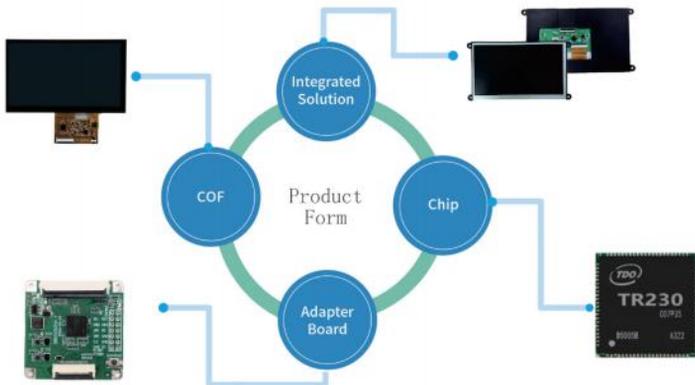


1. QSPI High Resolution Display

To meet the market demand for driving higher resolution and larger-sized modules via QSPI/SPI interfaces, TDO has innovated a specialized adapter chip-TR230S, to address interface compatibility challenges effectively.



Max. 1024*768



Advantages of TR230S

	TR230S(TDO)	Corp. A	Corp. B	Corp. C
Input Interface	SPI/Dual SPI/QSPI/8080/6800	SPI/Dual SPI/QSPI	8080/6800	SPI/8080/6800
Max Resolution	1024*768	800*600	864*480	800*480
SPI/8080 Clock(Max)	100MHz(SPI) 50MHz(8080)	30MHz (SPI)	50MHz (8080)	30MHz(SPI) 50MHz(8080)
DE(Display Engine)	Yes	Yes	No	No
GE(Graphic Engine)	Yes	Yes	No	No
Memory in Chip	8MB	1MB	1MB	768KB
Embedded Flash	8MB	No	No	No
Color	16.7M	16.7M	16.7M	65K
Font Integrated	Yes	Yes	No	No
Package	QFN68(7*7)	VQFN56(8*8)	LQFP-128(16*16)	LQFP-100(14*14)

QSPI High Resolution Display Product List

Type	Size	Model No.	Resolution	Viewing Angle	Luminance (cd/m ²)	Remark
COF	2.76"	TS028WVC02NQ-B8007A	480*480	IPS	380	Circular, Support CTP
COF	4"	TS040HDC02CQ-B8006A	720*720	IPS	390	Circular, Support CTP
COF	5"	TS050VWH02NQ-B8003A	800*480	IPS	650	Landscape, Support CTP
COF	7"	TS070VWH01NQ-B8001A	800*480	TN	360	Landscape, Support CTP
Adapter Board	2.1"	TS021WVC02NP-B1323B	480*480	IPS	500	Circular, Support CTP
Adapter Board	3.2"	TS032FWV02NP-I1440A	320*820	IPS	300	Square, Support CTP
Adapter Board	3.4"	TS034WVS02NP-B1477A	480*480	IPS	390	Square, Support CTP
Adapter Board	3.5"	TS035VWV02NP-B1683A	340*800	IPS	460	Bar, Support CTP
Adapter Board	3.99"	TS040FWV02NP-B1519B	400*960	IPS	500	Bar, Support CTP
Adapter Board	4.0"	TS040WVS02NP-B1617A	480*480	IPS	300	Square, Support CTP
Adapter Board	4.0"	TS040HDS02NP-B1620A	720*720	IPS	300	Square, Support CTP
Adapter Board	4.0"	TS040HDC02NP-B1613A	720*720	IPS	300	Circular
Adapter Board	5.0"	TS050FWV01NP-H1336A	480*854	TN	300	Portrait
Adapter Board	6.0"	TS060VWV02NP-I1360A	480*960	IPS	500	Portrai, Support CTPt
Adapter Board	10.1"	TS101WSH02NP-B1634A	1024*600	IPS	300	Landscape, Support CTP
Integrated Solution	7"	TS070VWH03NP-B1705A	800*480	TN	360	Landscape, Support CTP

2. USB Monitor

Users can effortlessly copy or extend their desktop onto external monitors via USB for seamless data transmission and stable display performance. This technology is applicable across audio and video equipment, gaming consoles, industrial control systems, various open-source hardware platforms, desktops, laptops, and beyond.



Features

- One USB cable for touch, display and power.
- Support setting boot logo/animation.
- Supports pre-rotation of the display screen at 90/180/270 degrees.



USB Monitor Product List

Type	Size	Model No.	Resolution	Viewing Angle	Luminance (cd/m ²)	Remark
USB Monitor	2.1"	TV021WVU02NK	480*480	IPS	500	Circular
USB Monitor	2.1"	TV021WVU02CK	480*480	IPS	420	Circular, Support CTP
USB Monitor	2.76"	TV028WVU02NK	480*480	IPS	280	Circular
USB Monitor	3"	TV030NHU02NK	360*640	IPS	300	Square
USB Monitor	3.4"	TV034HDU02NK	800*800	IPS	350	Circular
USB Monitor	3.4"	TV034WVU02NK	480*480	IPS	390	Square
USB Monitor	3.4"	TV034WVU02CK	480*480	IPS	250	Square, Support CTP
USB Monitor	3.99"	TV040FWU02NK	400*960	IPS	650	Bar
USB Monitor	4"	TV040WVU02NK	480*480	IPS	300	Square
USB Monitor	4"	TV040WVU02CK	480*480	IPS	250	Square, Support CTP
USB Monitor	4"	TV040HDU02NK	720*720	IPS	380	Square
USB Monitor	4"	TV040HDU02CK	720*720	IPS	320	Square, Support CTP
USB Monitor	4"	TV040HDU04NK	720*720	IPS	350	Circular
USB Monitor	4"	TV040HDU04CK	720*720	IPS	320	Circular, Support CTP
USB Monitor	5"	TV050FWU02NK	480*854	IPS	350	Portrait

3. Video Bridge Solution

Includes multiple interfaces: HDMI/DP/Type-C with DP Alt/CVBS.



Connect to Raspberry Pi

- Raspbian
- Ubuntu/Kali
- RetroPie



Connect to PC

- Windows10/11
- Windows 8.1/8
- Windows 7



More connector optional

- DP
- Type-C

Features

Plug & Play

Conforms to international standard interfaces

Integrated audio and video transmission

Video Bridge Product List

Type	Size	Model No.	Resolution	Viewing Angle	Luminance (cd/m ²)	Remark
HDMI	4"	TH040WVH11	800*480	IPS	500	Square
HDMI	4"	TH040WVH11CT	800*480	IPS	425	Square, Support CTP
HDMI	4"	TV040HDH02NL	720*720	IPS	380	Square
HDMI	4"	TV040HDH02CL	720*720	IPS	320	Square, Support CTP
HDMI	4.3"	TV043WVH02NL	800*480	IPS	500	Landscape
HDMI	4.3"	TV043WVH02CL	800*480	IPS	425	Landscape, Support CTP
HDMI	7"	TH070WSH11	1024*600	IPS	500	Landscape
HDMI	7"	TH070WSH11CT	1024*600	IPS	425	Landscape, Support CTP
HDMI	10.1"	TV101WSH02CL	1024*600	IPS	500	Landscape, Support CTP

Headquarter

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