

Small & Medium TFT-Displays with High Resolution

- 4.8" and 5" HD
- 7.0" to 12.1" WXGA
- 9.0" to 13.3" Full-HD
- 10.1" WUXGA
- How to connect eDP to LVDS
and LVDS to eDP
- Embedded





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4.8" and 5" TFT-Displays

HD Resolution

Panel	COM48H4N22ULC	COM50H5N03ULC	AM-7201280HTZQW-00H
Manufacturer	Ortustech	Ortustech	AMPIRE
Type	TN / 4.8"	TN / 5"	TN / 5"
Viewing angle (v/h)	160°/160°	160°/160°	160°/160°
Resolution	HD 720x1280	HD 720x1280	HD 720x1280
Input	MIPI*	MIPI*	MIPI*
BLU/Converter integrated	LED/NO	LED/NO	LED/NO
Brightness (cd/m²)	300	430	360
Temperature operating (°C)	-20...+70	-20...+70	-20...+70
Special Features	transflective	transflective	

* MIPI Interface under development

All combinations with controller boards and touch sensors are possible.
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7" and 9" TFT-Displays

WXGA Resolution

Panel	AM-1280800P2TZQW-00H	AM-1280800P3TZQW-10H	AM-1280800P3TZQW-00H	AA090TB01
Manufacturer	AMPIRE	AMPIRE	AMPIRE	Mitsubishi
Type	SFT / 7"	SFT / 7"	SFT / 7"	IPS / 9"
Viewing angle (v/h)	160°/160°	160°/160°	160°/160°	170°/170°
Resolution	WXGA 1280x800	WXGA 1280x800	WXGA 1280x800	WXGA 1280x768
Input	LVDS	LVDS	LVDS	LVDS
BLU/Converter integrated	LED/YES	LED/YES	LED/YES	LED/YES
Brightness (cd/m²)	500	1000	1500	800
Temperature operating (°C)	-20...+70	-20...+70	-20...+70	-30...+80
Resistive Touch				
4-wire	✓	✓	✓	✓
4-wire glass/glass	✓	✓	✓	✓
4-wire glass/glass with polarizer		✓	✓	
Projected Capacitive Touch				
PCAP	✓	✓	✓	✓
Finished design / Projected Capacitive Touch - Cover Glass - Black Printed				
PCAP	✓	✓	✓	
Industrial TFT-Controller				
Serial stand alone GUI TFT-Controller	✓	✓	✓	✓
Artista-IoT/Raspberry Pi TFT Controller	✓	✓	✓	✓
Digital/Analog input TFT-Controller (LVDS/eDP) VGA/DVI/HDMI/DisplayPort/S-Video/CVBS/Component	✓	✓	✓	✓
Optional: active audio	✓	✓	✓	✓

All combinations with controller boards and touch sensors are possible.
 Our stock range covers all 7" display technologies.
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10.1" TFT-Displays

WXGA Resolution

Panel	G101EVN01.0	G101EVN01.3	TM101JDHG30-00	NL12880AC16-01D	AA101TA02
Manufacturer	AUO	AUO	Tianma	NLT	Mitsubishi
Type	MVA	MVA	SFT	SFT	IPS
Viewing angle (v/h)	170°/170°	170°/170°	170°/170°	176°/176°	170°/170°
Resolution	WXGA 1280x800	WXGA 1280x800	WXGA 1280x800	WXGA 1280x800	WXGA 1280x800
Input	LVDS	LVDS	LVDS	LVDS	LVDS
BLU/Converter integrated	LED/YES	LED/YES	LED/YES	LED/YES	LED/YES
Brightness (cd/m²)	300	500	500	400	500
Temperature operating (°C)	-20...+60	-20...+70	-20...+70	-30...+80	-40...+80
			Touch Screen		
Analog Resistive Touch Sensor	✓	✓	✓	✓	✓
Projected Capacitive Touch Sensor	✓	✓	✓	✓	✓
			Industrial TFT-Controller		
Artista-IoT/Raspberry Pi TFT Controller	✓	✓	✓	✓	✓
Digital/Analog input TFT-Controller (LVDS/eDP) VGA/DVI/HDMI/DisplayPort/S-Video/CVBS/Component	✓	✓	✓	✓	✓
Optional: active audio	✓	✓	✓	✓	✓

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10.1" TFT-Displays

WXGA Resolution & High Brightness

Panel	AA101TA12	TM101JDHG32-00	AL101WXL02-N
Manufacturer	Mitsubishi	Tianma	AMOLED
Type	IPS	SFT	IPS
Viewing angle (v/h)	170°/170°	170°/170°	170°/170°
Resolution	WXGA 1280x800	WXGA 1280x800	WXGA 1280x800
Input	LVDS	LVDS	LVDS
BLU/Converter integrated	LED/NO*	LED/YES	LED/NO*
Brightness (cd/m²)	1000	1000	1300
Temperature operating (°C)	-40...+80	-20...+70	-20...+70
	Touch Screen		
Analog Resistive Touch Sensor	✓	✓	✓
Projected Capacitive Touch Sensor	✓	TM101JVHG32-00 with integrated PCAP and 5 touch points	✓
	Industrial TFT-Controller		
Artista-IoT/Raspberry Pi TFT Controller	✓	✓	✓
Digital/Analog input TFT-Controller (LVDS/eDP) VGA/DVI/HDMI/DisplayPort/S-Video/CVBS/Component	✓	✓	✓
Optional: active audio	✓	✓	✓

* [SmartLED Converter](#) available

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11.6" and 12.1" TFT-Displays

WXGA Resolution



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Panel	LP116WH-6-SLA1	GKVGCMNDK2A0	G121EAN01.0	G121I1-L01	AA121TD11
Manufacturer	LG	SGD	AUO	Innolux	Mitsubishi
Type	IPS / 11.1"	MVA / 12.1"	A-MVA / 12.1"	S-MVA / 12.1"	TN / 12.1"
Viewing angle (v/h)	min. 160°/160°	176°/176°	178°/178°	176°/176°	140°/160°
Resolution	WXGA 1366x768	WXGA 1280x800	WXGA 1280x800	WXGA 1280x800	WXGA 1280x800
Input	LVDS	LVDS	LVDS	LVDS	LVDS
BLU/Converter integrated	LED/YES	LED/NO*	LED/YES	LED/YES	LED/YES
Brightness (cd/m²)	300	1300	500	400	1500
Temperature operating (°C)	0...+50	-30...+80	-30...+85	-10...+70	-30...+80
Resistive Touch					
4-wire	✓	✓	✓	✓	✓
4-wire glass/glass	✓	✓	✓	✓	✓
PCAP Touch					
Projected Capacitive Touch Sensor	✓	✓	✓	✓	✓
Industrial TFT-Controller					
Artista-IoT/Raspberry Pi TFT Controller	✓	✓	✓	✓	✓
Digital/Analog input TFT-Controller (LVDS/eDP) VGA/DVI/HDMI/DisplayPort/S-Video/CVBS/Component	✓	✓	✓	✓	✓
Optional: active audio	✓	✓	✓	✓	✓

* [SmartLED Converter](#) available

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12.1" TFT-Displays

WXGA Resolution

Panel	NL12880AC20-14D	NL12880BC20-07F
Manufacturer	NLT	NLT
Type / size	TN	TN
Viewing angle (v/h)	160°/160°	160°/160°
Resolution	WXGA 1280x800	WXGA 1280x800
Input	LVDS	LVDS
BLU/Converter integrated	LED/YES	LED/NO*
Brightness (cd/m²)	450	1800
Temperature operating (°C)	-30...+80	-20...+70
	Touch Screen	
Analog Resistive Touch Sensor	✓	✓
Projected Capacitive Touch Sensor	✓	✓
	Industrial TFT-Controller	
Artista-IoT/Raspberry Pi TFT Controller	✓	✓
Digital/Analog input TFT-Controller (LVDS/eDP) VGA/DVI/HDMI/DisplayPort/S-Video/CVBS/Component	✓	✓
Optional: active audio	✓	✓

* [SmartLED Converter](#) available

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10" to 13.3" TFT-Displays

Full-HD Resolution

Panel	VVX10F087J00	VVX12F045J00	LP125WF-SPB2	G133HAN01.0
Manufacturer	Panasonic	Panasonic	LG	AUO
Type	IPS / 10.0"	IPS / 11.6"	IPS / 12.5"	AHVA / 13.3"
Viewing angle (v/h)	178°/178°	170°/170°	Min. 160°/160°	Min. 178°/178°
Resolution	FHD 1920x1080	FHD 1920x1080	FHD 1920x1080	FHD 1920x1080
Input	eDP*	eDP*	eDP*	LVDS
BLU/Converter integrated	LED/YES	LED/YES	LED/YES	LED/YES
Brightness (cd/m²)	300	280	400	400
Temperature operating (°C)	-20...+70	0...+50	0...+50	0...+70
	<i>* LVDS2eDP interface available</i>			
	Touch Screen			
Analog Resistive Touch Sensor	✓	✓	✓	✓
Projected Capacitive Touch Sensor	✓	✓	✓	✓
	Industrial TFT-Controller			
Artista-IoT/Raspberry Pi TFT Controller	✓	✓	✓	✓
Digital/Analog input TFT-Controller (LVDS/eDP) VGA/DVI/HDMI/DisplayPort/S-Video/CVBS/Component	✓	✓	✓	✓
Optional: active audio	✓	✓	✓	✓

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10.1" TFT-Displays

WUXGA Resolution

Panel	AM-19201200B1TZQW-00	AM-19201200B1TZQW-T51
Manufacturer	Ampire	Ampire
Type	MVA	MVA
Viewing angle (v/h)	170°/170°	170°/170°
Resolution	WUXGA 1920x1200	WUXGA 1920x1200
Input	LVDS	LVDS
BLU/Converter integrated	LED/YES	LED/YES
Brightness (cd/m²)	1000	850
Temperature operating (°C)	-20...+70	-20...+70
	Touch Screen	
Analog Resistive Touch Sensor	✓	
Projected Capacitive Touch Sensor	✓	integrated
	Industrial TFT-Controller	
Artista-IoT/Raspberry Pi TFT Controller	✓	✓
Digital/Analog input TFT-Controller	✓	✓
<small>(LVDS/eDP) VGA/DVI/HDMI/DisplayPort/S-Video/CVBS/Component</small>	✓	✓
Optional: active audio	✓	✓

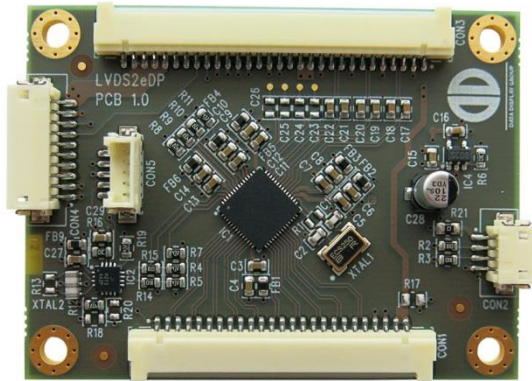
All combinations are possible.
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How to connect eDP to LVDS and LVDS to eDP



LVDS to eDP: LVDS2eDP adapter for an easy integration of TFT displays with eDP interface

With the LVDS2eDP adapter board you can easily connect dual-lane eDP TFT displays with a resolution up to WUXGA (1920x1200) to a dual-LVDS interface. No single lane WXGA (1366x768).

Power and backlight control are looped through on the adapter.

Operating temperature range -20 to +80°C



eDP to LVDS: eDP2LVDS adapter for an easy integration of TFT displays to IPCs/SBCs with eDP interface

With the eDP2LVDS adapter board you can easily connect single or dual LVDS TFT displays with a resolution up to WUXGA (1920x1200) to a single or dual-lane eDP interface.

Power and backlight control are looped through on the adapter.

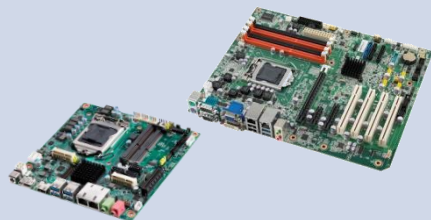
Operating temperature range -25 to +80°C

Embedded Boards



2,5" Pico-ITX™
3,5" Single Board Computer
PC/104
Slot SBC

Industrial Mainboards



Mini-ITX™
Micro-ATX
Flex-ATX
ATX

Embedded Systems



Embedded Box PCs
Embedded Panel PCs
Embedded Server
Embedded Desktop PCs
Digital Signage Player
Industrial Monitors

Accessories & IoT



Gateways
Switches
Router
Memory, CPUs
Cables
Power Supplies

Available Features & Options:

Designed for Industrial Applications

Extended Temperature -40°C...+85°C

Design-in Support

Kits (Board with OS, Display & Cables)

Long-term Availability

Custom Design

Fixed Bill of Material

EOL / PCN Handling



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