

Small & Medium TFT-Displays with High Resolution

- 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





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	✓	✓	✓	✓
USB-Client to LVDS TFT-Controller	✓	✓	✓	✓
RGB/DVI to LVDS TFT-Controller	✓	✓	✓	✓
Options: HDMI, DP, Video, Audio	✓	✓	✓	✓

All combinations with controller boards and touch sensors are possible.
 Our stock range covers all 7" display technologies.
 For more information contact our [sales](#).

High Resolution TFTs

your specialist for flat screen solutions



DATA DISPLAY GROUP

A FORTEC GROUP MEMBER

10.1" TFT-Displays

WXGA Resolution

Panel	G101EVN01.0	G101EVN01.3	TM101JDHG30-00	NL12880AC16-01D	TM101JDHG32-00	AL101WXL02-N
Manufacturer	AUO	AUO	Tianma	NLT	Tianma	AMOLED
Type	MVA	MVA	SFT	SFT	SFT	IPS
Viewing angle (v/h)	170°/170°	170°/170°	170°/170°	176°/176°	170°/170°	170°/170°
Resolution	WXGA 1280x800	WXGA 1280x800	WXGA 1280x800	WXGA 1280x800	WXGA 1280x800	WXGA 1280x800
Input	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS
BLU/Converter integrated	LED/YES	LED/YES	LED/YES	LED/YES	LED/YES	LED/NO
Brightness (cd/m²)	300	500	500	400	1000	1300
Temperature operating (°C)	-20...+60	-20...+70	-20...+70	-30...+80	-20...+70	-20...+70
Touch Screen						
Analog Resistive Touch Sensor	✓	✓	✓	✓	✓	✓
Projected Capacitive Touch Sensor	✓	✓	✓	✓	Version: integrated	✓
Industrial TFT-Controller						
Serial stand alone GUI TFT-Controller						
USB-Client to LVDS TFT-Controller	✓	✓	✓	✓	✓	✓
RGB/DVI to LVDS TFT-Controller	✓	✓	✓	✓	✓	✓
Ask for Options: HDMI, DP, Video, Audio	✓	✓	✓	✓	✓	✓

All combinations with controller boards and touch sensors are possible.
 Our stock range covers all 7" display technologies.
 For more information contact our [sales](#).

High Resolution TFTs

your specialist for flat screen solutions

11.6" and 12.1" TFT-Displays

WXGA Resolution



DATA DISPLAY GROUP

A FORTEC GROUP MEMBER

Panel	LP116WH-6-SLA1	GKVG1MNDK2A0	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					
Serial stand alone GUI TFT-Controller	✓	✓	✓	✓	✓
USB-Client to LVDS TFT-Controller	✓	✓	✓	✓	✓
RGB/DVI to LVDS TFT-Controller	✓	✓	✓	✓	✓
Options: HDMI, DP, Video, Audio	✓	✓	✓	✓	✓

All combinations with controller boards and touch sensors are possible.
 Our stock range covers all 7" display technologies.
 For more information contact our [sales](#).

High Resolution TFTs

your specialist for flat screen solutions



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	
Serial stand alone GUI TFT-Controller		
USB-Client to LVDS TFT-Controller	✓	✓
RGB/DVI to LVDS TFT-Controller	✓	✓
Ask for Options: HDMI, DP, Video, Audio	✓	✓

All combinations with controller boards and touch sensors are possible.
Our stock range covers all 7" display technologies.
For more information contact our [sales](#).

High Resolution TFTs

your specialist for flat screen solutions



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			
Serial stand alone GUI TFT-Controller				
USB-Client to LVDS TFT-Controller	✓	✓	✓	✓
RGB/DVI to LVDS TFT-Controller	✓	✓	✓	✓
Ask for Options: HDMI, DP, Video, Audio	✓	✓	✓	✓

All combinations with controller boards and touch sensors are possible.
Our stock range covers all 7" display technologies.
For more information contact our [sales](#).

High Resolution TFTs

your specialist for flat screen solutions



10.1" TFT-Displays

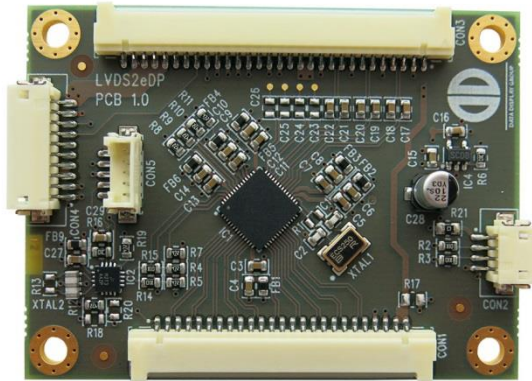
WUXGA Resolution

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	
Serial stand alone GUI TFT-Controller		
USB-Client to LVDS TFT-Controller	✓	✓
RGB/DVI to LVDS TFT-Controller	✓	✓
Ask for Options: HDMI, DP, Video, Audio	✓	✓

All combinations are possible.
For more information contact our [sales](#).



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.

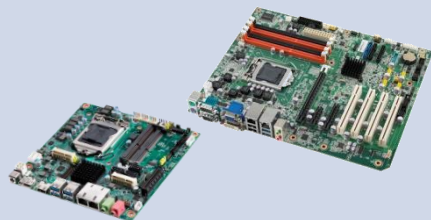
Operating temperature range -25 to +80°C

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



For more information please contact:

Germany 	Distec GmbH Augsburg Str. 2b 82110 Germering Germany	Phone: +49 89 89 43 63-0 Fax: +49 89 89 43 63-131 E-Mail: info@datadisplay-group.de Internet: www.datadisplay-group.de
	FORTEC Elektronik AG Lechwiesenstr. 9 86899 Landsberg am Lech Germany	Phone: +49 8191 911 72-0 Fax: +49 8191 217 70 E-Mail: sales@fortecag.de Internet: www.fortecag.de
	FORTEC Elektronik AG Office West Hohenstaufenring 55 50674 Köln Germany	Phone: +49 221 272 273-0 Fax: +49 221 272 273-10 E-Mail: west@fortecag.de
Austria 	FORTEC Elektronik AG Office Vienna Nuschinggasse 12 1230 Wien Austria	Phone: +43 1 8673492-0 Fax: +43 1 8673492-26 E-Mail: office@fortec.at
Switzerland 	ALTRAC AG Bahnhofstraße 3 5436 Würenlos Switzerland	Phone: +41 44 7446111 Telefax: +41 44 7446161 E-Mail: info@altrac.ch Internet: www.altrac.ch
United Kingdom 	Display Technology Ltd. 5 The Oaks Business Village Revenge Road, Lordswood Chatham, Kent, ME5 8LF United Kingdom	Phone: +44 1634 67 27 55 Fax: +44 1634 67 27 54 E-Mail: info@displaytechnology.co.uk Internet: www.displaytechnology.co.uk
USA 	Apollo Display Technologies, Corp. 87 Raynor Avenue, Unit 1 Ronkonkoma, NY 11779 United States of America	Phone: +1 631 580-43 60 Fax: +1 631 580-43 70 E-Mail: info@apolloDisplays.com Internet: www.apolloDisplays.com