

Open Frame Monitors

easyPanel
by Data Modul



- developed and assembled by Data Modul
- easy integration into customer applications
- plug & play function
- long term availability



Data Modul – more than displays!

Concentrating on displays business and continuously adapting our product portfolio to the changing markets, we developed from a distribution company to a specialist display solution provider with the largest and finest selection of displays in Europe.

easyPanel solutions integrate our own developed display controller and inverter with the display to a fitted housing. The final product are industrial open frame solutions, manufactured mainly in our headquarter in Munich with certified and reliable components.

The configuration on an **easyPanel** is freely selectable. Flexible design and different driving options supporting real plug & play. Your **easyPanel** will be delivered exactly to your requirements. Our **easyPanels** are not only a great solution for the industrial market, they meet also the requirement of the gaming and other markets.



Our easyPanels contain fully tested and approved components such as:

TFTs:

Selected high class manufacturers such as:

SHARP, **AUO**, **CMO**, **HITACHI**,

KYOCERA, **EPSON** or **SAMSUNG**

Advantages: full range of TFTs from low cost oriented notebook and other consumer TFTs up to high end industrial TFTs with a long lifecycle.

- LED- or CCFL-backlight versions
- standard 4:3, 5:4 or wide, 16:9, 16:10 formats
- high brightness solutions
- in relation to the viewing angle:
TN-, ASV-, MVA- or IPS-technology
- LR-coating versions
- transmissive or transreflective versions



eMotion boards:

Control board which fits 100% to the TFT product lines.

Advantages: clear focus on reliability, long term availability and product stability.

- RGB / DVI / Video-input
- customized boot up logo
- on-board OSD, external OSD optionally
- up to WUXGA available
- wide range power supply 12-24V
- serial control of the board



customized solutions:

- with embedded boards or Data Modul **L^{USB}IVE** (display controller)

Accessories:

Cables and inverters

Advantages: components are tuned to work together, guaranteed within the specification.

- inverter solutions fitting to the displays
- fitting connectors and cables



Touch panels:

They are replacing keyboards and other operator interfaces. The latest touch panel technology is enabling a new standard of quality for high LCD visibility and panel durability. All standard sizes and technologies are available.

DMC, HIGGSTEC, 3M, GENERAL Touch

Advantages: touch integration in clean room conditions, also fully tested and approved.

- 4-wire and 5-wire resistive
- capacitive (official **3M** touch integration partner)
- infrared
- surface acoustic wave
- vandalism resistant versions
- versions with privacy filter



Manufacturing:

Our **easyPanels** are produced in our own manufacturing facilities in Munich. Our facilities are characterized by:

Advantages: modern equipment, up-to-date facilities, qualified employees.



Quality:

High class service is important to us – therefore we must have professional equipment to test and evaluate the products:

Advantages: uncompromised quality – ISO 9001 – 2000 approved, climatic exposure cabinet for temperature tests, clean room for touch panel mounting, 3D microscope for surface analysis.



Logistics:

Our logistic centre and warehouse in Munich offers all the value added services a modern supply chain should offer.

Advantages: on-time delivery, labelling, series numbers, bar coding.

7.0" Wide Format WVGA



Description:	EP070
Resolution:	800 x 480 dots
Ratio:	16:9
Outline dimension:	185.0 x 106.3 x 35.0 mm
Outline dimension touch version:	185.0 x 106.3 x 44.0 mm
Viewing Angle (U/D/L/R):	40/60/60/60
Backlight:	LED
Panel:	C070VW02V.0
Manufacturer:	AUO
Technology:	TN, normally white

Part number:	Description:	Touchpanel	Brightness	Touch I/F	Inputs		
					RGB	DVI	Video
BK00145	EP070AV28-1-0-0-DM	none	400 cd/m ²	none	X		X
BK00172	EP070AV28-1-4W-U-DM	4-wire resistive	340 cd/m ²	USB	X		X

9.0" Wide Format WVGA



Description:	EP090
Resolution:	800 x 480 dots
Ratio:	16:9
Outline dimension:	236.0 x 135.0 x 42.4 mm
Outline dimension touch version:	236.0 x 135.0 x 44.0 mm
Viewing Angle (U/D/L/R):	85/85/85/85
Backlight:	CCFL
Panel:	TX23D12VM0CAA
Panel Touch Solution:	TX23D12VM0CBA
Manufacturer:	Hitachi
Technology:	IPS, normally black

Part number:	Description:	Touchpanel	Brightness	Touch I/F	Inputs		
					RGB	DVI	Video
BK00168	EP090WAD37-1-0-0-DM	none	300 cd/m ²	none	X	X	
BK00169	EP090WAD38-1-4W-U-DM	4-wire resistive	240 cd/m ²	USB	X	X	

10.4" XGA



Description:	EP104
Resolution:	1024 x 768 dots
Ratio:	4:3
Outline dimension:	tbd
Viewing Angle (U/D/L/R):	88/88/88/88
Backlight:	CCFL
Panel:	G104X1-L01
Manufacturer:	CMO
Technology:	MVA, normally black

Part number:	Description:	Touchpanel	Brightness	Touch I/F	Inputs		
					RGB	DVI	Video
BK00190	EP104AD40-1-0-0-DM	none	400 cd/m ²	none	X	X	

12.1“ SVGA



Description:	EP121
Resolution:	800 x 600 dots
Ratio:	4:3
Outline dimension:	275.0 x 233.0 x 38.75 mm
Outline dimension touch version:	275.0 x 233.0 x 39.25 mm
Viewing Angle (U/D/L/R):	89/89/89/89
Backlight:	CCFL
Panel:	G121S1-L01
Manufacturer:	CMO
Technology:	MVA, normally black

Part number:	Description:	Touchpanel	Brightness	Touch I/F	Inputs		
					RGB	DVI	Video
BK00191	EP121AD43-1-0-0-DM	none	450 cd/m ²	none	X	X	
BK00183	EP121AD43-1-CAP-R-DM	capacitive	380 cd/m ²	Serial	X	X	

13.3“ Wide Format WXGA



Description:	EP133
Resolution:	1280 x 800 dots
Ratio:	16:10
Outline dimension:	332.0 x 199.0 x 39.0 mm
Viewing Angle (U/D/L/R):	70/70/60/60
Backlight:	CCFL
Panel:	G133I1-L02
Manufacturer:	CMO
Technology:	TN, normally white

Part number:	Description:	Touchpanel	Brightness	Touch I/F	Inputs		
					RGB	DVI	Video
BK00147	EP133WAD29-1-0-0-DM	none	400 cd/m ²	none	X	X	

15.0“ XGA

high brightness
version



Description:	EP150
Resolution:	1024 x 768 dots
Ratio:	4:3
Outline dimension:	328.9 x 256.0 x 44.3 mm
Outline dimension touch version:	357.0 x 258.0 x 49.0 mm
Viewing Angle (U/D/L/R):	80/80/80/80
Backlight:	CCFL
Panel:	G150X1-L02 (6° o'clock)
Manufacturer:	CMO
Technology:	TN, normally white

Part number:	Description:	Touchpanel	Brightness	Touch I/F	Inputs		
					RGB	DVI	Video
BK00155	EP150AD33-1-0-0-DM	none	450 cd/m ²	none	X	X	
BK00160	EP150AD33-1-5W-U-DM V.1	5-wire resistive	370 cd/m ²	USB	X	X	

15.0" XGA



Description:	EP150
Resolution:	1024 x 768 dots
Ratio:	4:3
Outline dimension:	357.0 x 258.0 x 47.3 mm
Outline dimension touch version:	357.0 x 258.0 x 49.0 mm
Viewing Angle (U/D/L/R):	65/60/70/70
Backlight:	CCFL
Panel:	G150XG03V.2
Manufacturer:	AUO
Technology:	TN, normally white

Part number:	Description:	Touchpanel	Brightness	Touch I/F	Inputs		
					RGB	DVI	Video
BK00171	EP150AD34-1-0-0-DM	none	250 cd/m ²	none	X	X	
BK00161	EP150AD34-1-CAP-R-DM V.1	capacitive	210 cd/m ²	serial	X	X	

15.4" Wide Format WXGA



Description:	EP154
Resolution:	1280 x 800 dots
Ratio:	16:10
Outline dimension:	378.5 x 233.0 x 42.6 mm
Outline dimension touch version:	378.5 x 233.0 x 45.0 mm
Viewing Angle (U/D/L/R):	80/80/70/70
Backlight:	CCFL
Panel:	G154I1-L01
Manufacturer:	CMO
Technology:	TN, normally white

Part number:	Description:	Touchpanel	Brightness	Touch I/F	Inputs		
					RGB	DVI	Video
BK00192	EP154WAD41-1-0-0-DM	none	600 cd/m ²	none	X	X	
BK00174	EP154WAD41-1-5W-U-DM	5-wire resistive	510 cd/m ²	USB	X	X	

17.0" SXGA



Description:	EP170
Resolution:	1280 x 1024 dots
Ratio:	5:4
Outline dimension:	385.0 x 307.0 x 48.8 mm
Outline dimension touch version:	385.0 x 307.0 x 51.8 mm
Viewing Angle (U/D/L/R):	80/80/85/85
Backlight:	CCFL
Panel:	M170EG01VD
Manufacturer:	AUO
Technology:	TN, normally white

Part number:	Description:	Touchpanel	Brightness	Touch I/F	Inputs		
					RGB	DVI	Video
BK00186	EP170AD25-1-0-0-DM V.0	none	300 cd/m ²	none	X	X	
BK00184	EP170AD25-1-CAP-U-DM V.0	capacitive	255 cd/m ²	USB	X	X	



19.0" SXGA

optional MCT Touch system for Gaming application

Description:	EP190
Resolution:	1280 x 1024 dots
Ratio:	5:4
Outline dimension:	423.4 x 343.9 x 50.0 mm
Outline dimension touch version:	423.4 x 343.9 x 57.2 mm
Viewing Angle (U/D/L/R):	89/89/89/89
Backlight:	CCFL
Panel:	M190EG01V.0
Manufacturer:	AUO
Technology:	MVA, normally black

Part number:	Description:	Touchpanel	Brightness	Touch I/F	Inputs		
					RGB	DVI	Video
BK00185	EP190AD19-1-0-0-DM	none	300 cd/m ²	none	X	X	
BK00187	EP190AD19-1-CAP-U-DMV.1	capacitive	255 cd/m ²	USB	X	X	
BK00177	EP190AD19-1-CAP-R-DMV.1 (frame bezel)	capacitive	255 cd/m ²	serial	X	X	



19.0" Wide Format WXGA+

optional MCT Touch system for Gaming application

Description:	EP190
Resolution:	1440 x 900 dots
Ratio:	16:10
Outline dimension:	tbd
Outline dimension touch version:	tbd
Viewing Angle (U/D/L/R):	80/80/80/80
Backlight:	CCFL
Panel:	M190PW01
Manufacturer:	AUO
Technology:	TN, normally white

Part number:	Description:	Touchpanel	Brightness	Touch I/F	Inputs		
					RGB	DVI	Video
BK00188	EP190WAD35-1-0-0-DM	none	300 cd/m ²	none	X	X	
BK00170	EP190WAD35-1-SAW-U-DM (frame bezel)	SAW	255 cd/m ²	USB	X	X	



22.0" Wide Format WSXGA+

optional MCT Touch system for Gaming application



MicroTouch™ Capacitive TouchSense® System (MCT System):
this next-generation touch interface incorporates tactile feedback technology to give on-screen game buttons the sensation of pressing traditional mechanical buttons.

Description:	EP220
Resolution:	1680 x 1050 dots
Ratio:	16:10
Outline dimension:	548.0 x 329.0 x 48.6 mm
Outline dimension touch version:	548.0 x 329.0 x 52.6 mm
Viewing Angle (U/D/L/R):	89/89/89/89
Backlight:	CCFL
Panel:	G220SW01V.0
Manufacturer:	AUO
Technology:	PMVA, normally black

Part number:	Description:	Touchpanel	Brightness	Touch I/F	Inputs		
					RGB	DVI	Video
BK00189	EP220WAD36-1-0-0-DM	none	300 cd/m ²	none	X	X	
BK00175	EP220WAD36-1-CAP-U-DM (frame bezel)	capacitive	255 cd/m ²	USB	X	X	



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