

# Open Frame Monitors

**easy**  
panel



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



## Data Modul – more than displays!

The DATA MODUL **easyPanel** family is designed for ease and speed of customer development.

Our plug and play display and touch solutions make effective integration a breeze and dramatically reduce your time to market.

Our **easyPanel** solution contains the DATA MODUL driving solutions and embedded systems, in a standard or customized housing. The final products are industrial open frame solutions, manufactured in our own production facilities in Germany (Munich and Weikersheim).

The configuration of an **easyPanel** is freely selectable, offering 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:

**AUO SHARP CHIMEI INNOLUX HITACHI**

**KYOCERA SONY SAMSUNG LG**

### Features:

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

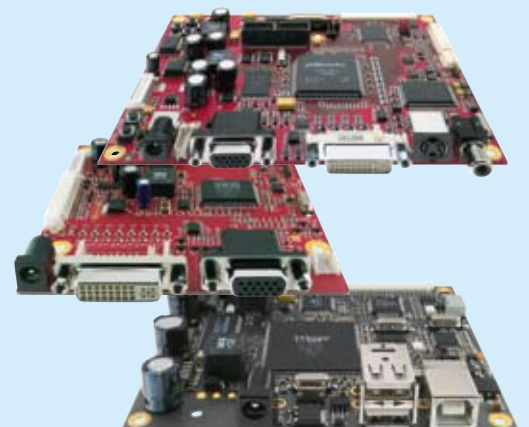


## Data Modul eMotion boards

A/D control board which fits 100% to our TFT portfolio.

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

- RGB / DVI / Video-input (**eMotion G** series)
- RGB/DVI/VIDEO/HDMI input with PIP function (**eMotion P3**)
- USB input (**eMotion Live**)
- 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



## Touch panels

DATA MODUL supports a wide range of touch screen technologies and overlay enhancements. Touch Screens have been replacing keypads and mechanical operator interfaces for several years now.

DATA MODULS new touch screen technologies address the customers concerns for better transmissivity, greater ruggedness, environmental performance, mechanical flexibility and Multi touch capabilities.

All standard sizes and technologies are available.



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

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

## Manufacturing

Our **easyPanels** are produced in our own manufacturing facilities in Munich and Weikersheim. Our facilities are characterized by modern equipment, up-to-date facilities, qualified employees.

We support high volumes as well as small specialist specialized productions .

## Certifications (CE )

Our products are well prepared to easily pass certification and safety tests. Our qualified field application department supports the customer with all necessary information.

On request, the certifications could be done from DATA MODUL. Our facilities are qualified from the UL laboratories also.

## Quality

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

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



**7.0" (17,8 cm)**  
**Wide Format (16:9)**  
**WVGA (800 x 480)**

Outline dimension: 185 x 106.3 mm



Part number	Description	Brightness	View Angle	Backlight	Touchpanel	Touch	Inputs		
							RGB	DVI	Video
BK00333	EP070WAV69-1-0-DM	400 cd/m <sup>2</sup>	80/80/80/80	LED	none	none	X	X	

**10.4" (26,4 cm)**  
**SVGA (800 x 600)**

Outline dimension: 274 x 197 mm



Part number	Description	Brightness	View Angle	Backlight	Touchpanel	Touch	Inputs		
							RGB	DVI	Video
BK00xxx	EP104AD64-1-0-0-DM	400 cd/m <sup>2</sup>	80/80/60/80	LED	none	none	X	X	
BK00323	EP104AD64-1-4W-U-DM	340 cd/m <sup>2</sup>	80/80/60/80	LED	4-wire resistive	USB	X	X	

**10.4" (26,4 cm)**  
**XGA (1024 x 768)**

Outline dimension: 267 x 184 mm



Part number	Description	Brightness	View Angle	Backlight	Touchpanel	Touch	Inputs		
							RGB	DVI	Video
BK00190	EP104AD40-1-0-0-DM	350 cd/m <sup>2</sup>	88/88/88/88	CCFL	none	none	X	X	
BK00196	EP104AD40-1-CAP-U-DM	340 cd/m <sup>2</sup>	88/88/88/88	CCFL	capacitive	USB	X	X	

Bilder nur Beispiele, Abweichungen möglich

## 12.1" (30,7 cm) SVGA (800 x 600)

Outline dimension: 290 x 240 mm



Part number	Description	Brightness	View Angle	Backlight	Touchpanel	Touch	Inputs		
							RGB	DVI	Video
BK003xx	EP121AD61-1-0-0-DM	450 cd/m <sup>2</sup>	80/80/65/75	LED	none	none	X	X	
BK00319	EP121AD61-1-5W-U-DM	360 cd/m <sup>2</sup>	80/80/65/75	LED	5 Wire	USB	X	X	

## 12.1" (30,7 cm) XGA (1024 x 768)

Outline dimension: 275 x 233 mm



Part number	Description	Brightness	View Angle	Backlight	Touchpanel	Touch	Inputs		
							RGB	DVI	Video
BK00193	EP121AD44-1-0-0-DM	450 cd/m <sup>2</sup>	80/80/65/75	CCFL	none	none	X	X	
BK00194	EP121AD44-1-CAP-R-DM	380 cd/m <sup>2</sup>	80/80/65/75	CCFL	capacitive	RS232	X	X	

## 13.3" (33,8 cm) Wide Format (16:10) WXGA (1280 x 800)

Outline dimension: 332 x 199 mm



Part number	Description	Brightness	View Angle	Backlight	Touchpanel	Touch	Inputs		
							RGB	DVI	Video
BK00147	EP133WAD29-1-0-0-DM	400 cd/m <sup>2</sup>	70/70/60/60	CCFL	none	none	X	X	

## 15.0" (38,1 cm) XGA (1024 x 768)

Outline dimension: 382 x 258 mm



Part number	Description	Brightness	View Angle	Backlight	Touchpanel	Touch	Inputs		
							RGB	DVI	Video
BK003xx	EP150AD60-1-0-0-DM	350 cd/m <sup>2</sup>	80/80/80/60	LED	none	none	X	X	
BK00318	EP150AD60-1-5W-U-DM	280 cd/m <sup>2</sup>	80/80/80/60	LED	5 wire	USB	X	X	
BK00171	EP150AD34-1-0-0-DM	250 cd/m <sup>2</sup>	85/85/80/80	CCFL	none	none	X	X	

## 15.4" (39,1 cm) Wide Format (16:10) WXGA (1280 x 800)

Outline dimension: 378,5 x 233 mm



Part number	Description	Brightness	View Angle	Backlight	Touchpanel	Touch	Inputs		
							RGB	DVI	Video
BK00192	EP154WAD41-1-0-0-DM	600 cd/m <sup>2</sup>	80/80/70/70	CCFL	none	none	X	X	
BK00174	EP154WAD41-1-5W-U-DM	510 cd/m <sup>2</sup>	80/80/80/60	CCFL	5 wire	USB	X	X	

## 17.0" (43,2 cm) SXGA (1280 x 1024)

Outline dimension: 385 x 307 mm



Part number	Description	Brightness	View Angle	Backlight	Touchpanel	Touch	Inputs		
							RGB	DVI	Video
BK00308	EP170AD51-1-0-0-DM V.0	350 cd/m <sup>2</sup>	85/85/80/80	CCFL	none	none	X	X	
BK00309	EP170AD51-1-CAP-U-DM V.0	280 cd/m <sup>2</sup>	85/85/80/80	CCFL	capacitive	USB	X	X	

Bilder nur Beispiele, Abweichungen möglich

**18.5" (47 cm)**  
**Wide Format (16:9)**  
**WXGA (1366 x 768)**

Outline dimension: 460 x 243 mm



Part number	Description	Brightness	View Angle	Backlight	Touchpanel	Touch	Inputs		
							RGB	DVI	Video
BK00317	EP185WAD58-1-0-0-DM	300 cd/m <sup>2</sup>	85/85/80/80	CCFL	none	none	X	X	

**19" (48,3 cm)**  
**SXGA (1280 x 1024)**

Outline dimension: 418 x 338,5 mm



**PMVA Versions (no color shift):**

Part number	Description	Brightness	View Angle	Backlight	Touchpanel	Touch	Inputs		
							RGB	DVI	Video
BK00307	EP190AD50-1-0-0-DM	300 cd/m <sup>2</sup>	89/89/89/89	CCFL	none	none	X	X	
BK00198	EP190AD50-1-CAP-U-DMV.1	255 cd/m <sup>2</sup>	89/89/89/89	CCFL	capacitive	USB	X	X	
BK00199	EP190AD50-1-CAP-R-DMV.1	255 cd/m <sup>2</sup>	89/89/89/89	CCFL	capacitive	serial	X	X	

**TN versions:**

Part number	Description	Brightness	View Angle	Backlight	Touchpanel	Touch	Inputs		
							RGB	DVI	Video
BK003xx	EP190AD59-1-0-0-DM	450 cd/m <sup>2</sup>	85/85/80/80	CCFL	none	none	X	X	
BK00328	EP190AD59-1-5W-U-DM	360 cd/m <sup>2</sup>	85/85/80/80	CCFL	5 wire	USB	X	X	

**22.0" (55,9 cm)**  
**Wide Format (16:10)**  
**WSXGA+ (1680 x 1050)**

Outline dimension: 508 x 368 mm



Part number	Description	Brightness	View Angle	Backlight	Touchpanel	Touch	Inputs		
							RGB	DVI	Video
BK00249	EP220WAD36-1-0-0-DM	300 cd/m <sup>2</sup>	89/89/89/89	CCFL	none	none	X	X	
BK00250	EP220WAD36-1-CAP-U-DM	255 cd/m <sup>2</sup>	89/89/89/89	CCFL	capacitive	USB	X	X	



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