DLOGIC

WORLD CLASS

TOUCH DISPLAY COMPUTERS
PANEL PCs and MONITORS



Enhance your product with our sleek, feature-rich,



Touch Display Computers, Panel PCs, Web Terminals and Monitors

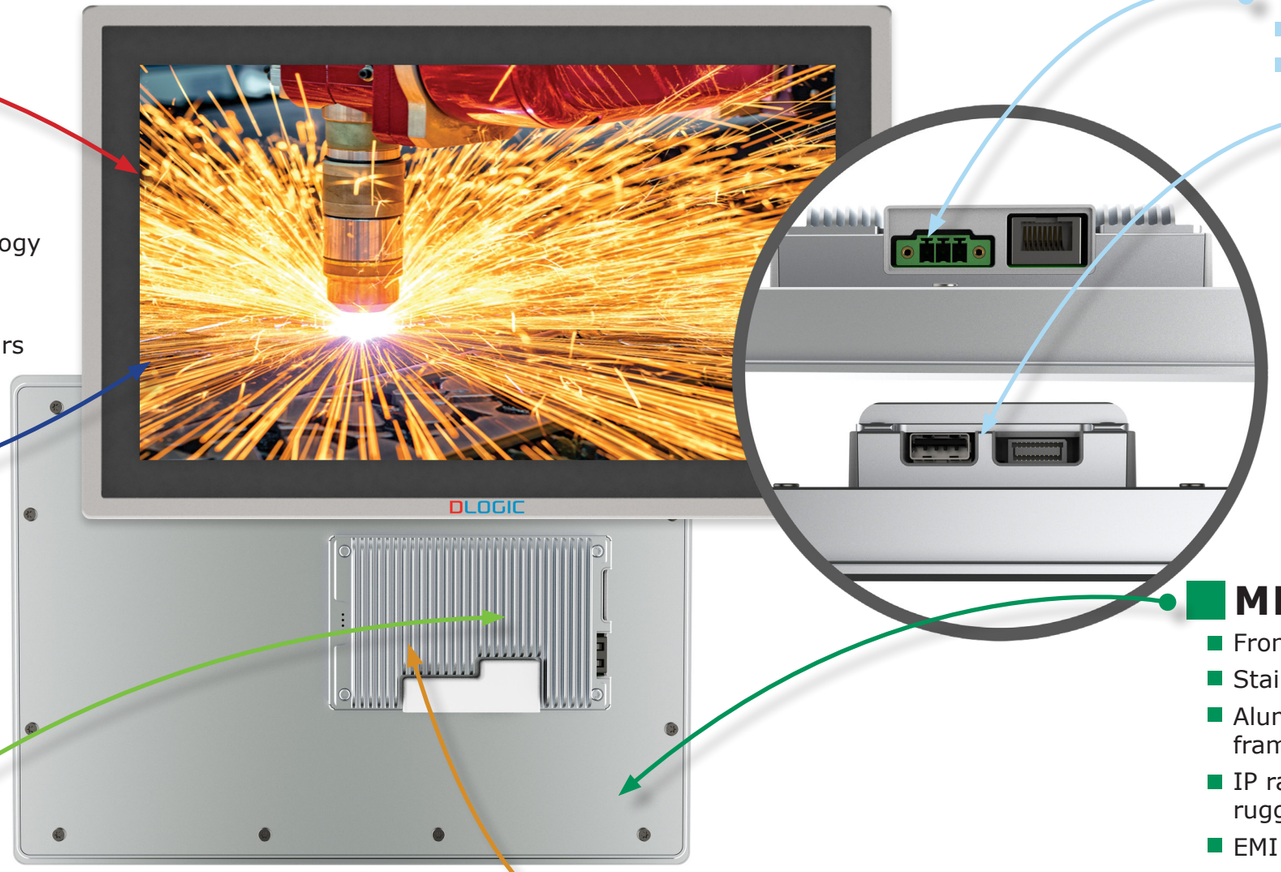
Linux™ debian Java Qt HTML chromium CODESYS NXP

TOUCH DISPLAY COMPUTERS

Sleek and modern design, high performance

STANDARD PRODUCT FEATURES

easy to use with a host of application options



DISPLAY

- Designed in-house
- 4.3” to 49.0” range
- Proprietary Ultra-wide viewing angle technology (UWAT) or IPS
- Portrait or landscape modes
- 24-bit colour depth – clear and vibrant colours
- High brightness backlights
- Industrial temperature range
- Long lifetime

TOUCH

- Projected Capacitive Touch
- State of the art, in-house developed
- specifically for our DLOGIC modules
- Latest technology touch sensor
- Water and moisture support
- Glove touch support
- Pen support

ELECTRONICS

- NXP/Freescale Arm™ i.MX series technology
- Industrial grade components
- Galvanic isolated interfaces
- Input power protection
- High performance, wide input voltage
- Battery backed real-time clock
- Conforms to various ISO, UL, CE standards

PERIPHERALS

- Power
- Ethernet
- CAN bus, RS232/485, MDB (Galvanic isolated)
- USB, SPI, I2C
- PWM / GPIOs
- S/PDIF
- Audio options

MECHANICAL

- Front or rear mount
- Stainless steel protective housing
- Aluminium or S316 stainless front mounting frame options
- IP rated for moisture, water, dust and other ruggedisation
- EMI / EMC rated housing

SOFTWARE PLATFORM

- Linux including access to all standard packages
- Driver support for all interfaces
- GPU hardware accelerated graphics support
- VPU hardware video encoding/decoding support
- Various GUI support: Qt, Java, HTML5
- Fully functional board support package (BSP)
- 100% supported in-house by DLOGIC

Linux™ debian Java Qt HTML chromium CODESYS NXP

SOFTWARE PLATFORM AND BOARD SUPPORT

The DLOGIC value proposition combines world class software and hardware in a ready to install product guaranteeing quick time to market and therefore excellent return on investment for your project.

As the board support package supports the entire DLOGIC touch display computer range applications may be written for one device and run on any size/version.

This combination of software systems provides a reliable, simple and efficient development environment.

Linux is installed across the entire product range which is known for its high reliability and stability with software developers.

Every DLOGIC unit is pre-installed with software supporting GUI applications utilizing state of the art technologies including QT, Java, HTML5 and CODESYS

What you receive with a DLOGIC solution

- **Linux based board support package across entire product range**
- **Debian distribution renowned for its high quality, reliability and stability**
- **Access to the vast Debian package repository via standard package management tools for easy updates and functionality enhancements**
- **Driver support for all interfaces**
- **GPU hardware accelerated graphics support**
- **VPU hardware video encoding/decoding support**
- **QT5 run-time libraries**
- **Java runtime environment option**
- **HTML5 browser support**

NEW!

Now supporting Codesys compatible PLCs with CODESYS TARGETVISU

Visualisation software for IEC 61131-3 PLCs

DEVELOPMENT SYSTEM

Our development system is offered to customers as a ‘kit’ and provides the starting point for application development with DLOGIC touch computer devices.

OPTIONAL NOW WITH CODESYS

Linux debian Java chromium CODESYS HTML

Development Kit includes

- DLOGIC DL series device version of your choice with pre-installed BSP for development
- Connector board for easy access to all interfaces
- Power adapter and cables
- Pre-configured Debian Linux virtual machine ready for application development with
  - cross compile tool-chains
  - development environment
  - demo applications source code
- Access to DLOGIC support



Development Kit highlights

- Graphics development with world class standard tools enabling super-fast development ofresponsive modern user interface applications
- QT5, Java and/or browser based applications
- All run-time libraries included as integral part of board support package.
- Development kit with pre-configured tools enabling efficient development on host and target device

Rapid GUI Development

DLOGIC provides a ready to go virtual development system as part of the development kit for application software development compatible with the device software platform.

The development system runs a desktop version of the Linux distribution installed on the devices and includes all necessary development tools including cross compilers and IDE to get development going. Java runtime environment optional

VirtualBox

vmware®

TOUCH DISPLAY MONITORS

Want to use your own embedded computer board? No problem!

Our high performance Projected Capacitive Touch Monitors are designed to interface to any 3rd party LVDS or HDMI embedded PC or computer solution, and suitable for a wide range of applications.



Product : 12.1” Touch Display Monitor
Series : DL-DM1210-HDMI
(see page 21 for details)



STANDARDS

We employ various standards and limits across our product range.

Emission standards such as EN55011 and EN61000 are employed, as well as Immunity standard IEC61000, in addition to FCC and ICES standards.

QUALITY

You may not have heard of DLOGIC, but you have used our products for many years.

We design and manufacture products for our ODM and OEM customers, who then install our touch display computers into their high-end machines, mobile and fixed equipment as well as wall mounted products.

Our customers trust the quality we design into every aspect of our products, from concept to mass production.

Talk to us today about how we can help you to enhance your product with our touch display interfaces.



INTELLECTUAL PROPERTY

DLOGIC recognises that compliance with Intellectual Property rights laws and international agreements are of vital importance to our clients.

Protecting the Intellectual Property of our clients is subsequently of critical importance to the success of our business. We therefore implement stringent control and procedures to ensure proper IP protection on a per project and customer basis.

TOUGH GLASS SERIES

Our 4mm tough safety glass series comes in two basic options, SGF series for front mounting, and SGR for rear mounting. Both series meet UL751 S46B, and suitable for outdoor applications such as marine, transportation, heavy machinery and vending.

Implementing physically hardened safety glass enhances the impact, shock and vibration characteristics of the DLOGIC range.

REAR MOUNTING [SGR SERIES]

Safety glass protruding from the front allowing installation into equipment from the back side, providing a completely flat front side surface.

Illustration of standard **DL-DM700x-SGR** series with 4mm safety glass, rear mounted, flush mounted within the door frame.

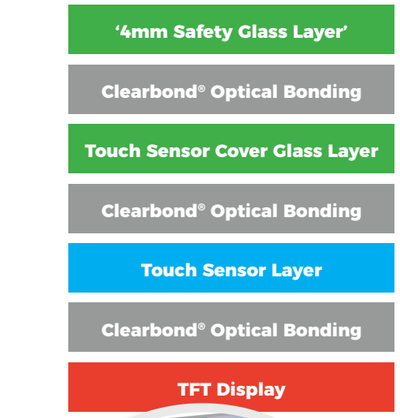


FRONT MOUNTING [SGF SERIES]

Sleek and modern design with safety glass hidden behind front panel of the machine



CLEARBOND® OPTICAL BONDING



DLOGIC models are available with our proprietary ClearBond ® optical bonding technology.

This removes any unwanted reflection of light between the display and touch sensor while ensuring there is no possibility for dust and dirt to get in between the cover lens, touch sensor and TFT display surfaces.

This is particularly important for equipment designed for outdoor use to avoid reflection from direct sunlight as well as protecting from dirt, dust, moisture, shock and vibration.

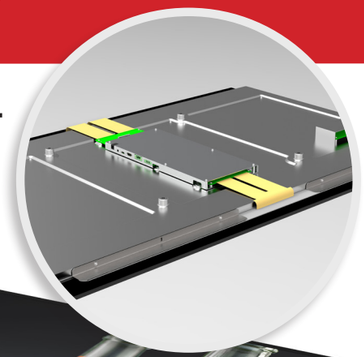
FEATURES

Improves viewability in all conditions

Increases ruggedness

Improves resistance to shock, impact & vibration

Resistant to dust, dirt and moisture



Largest size currently in production utilsing our ClearBond™ optical bonding technology.

Application : Outdoor Vending

Product series : DL-DM4900-HDMI-SGF

- 49.0” 1920 x 1080 IPS TFT, Optical Bonded
- High-brightness backlight, 700cd/m2
- 8mm thick, physically hardened safety glass
- Capacitive Touch USB

Interfaces :

- Display Port to LVDS 2-ch
- Backlight control
- Customised mechanical housing



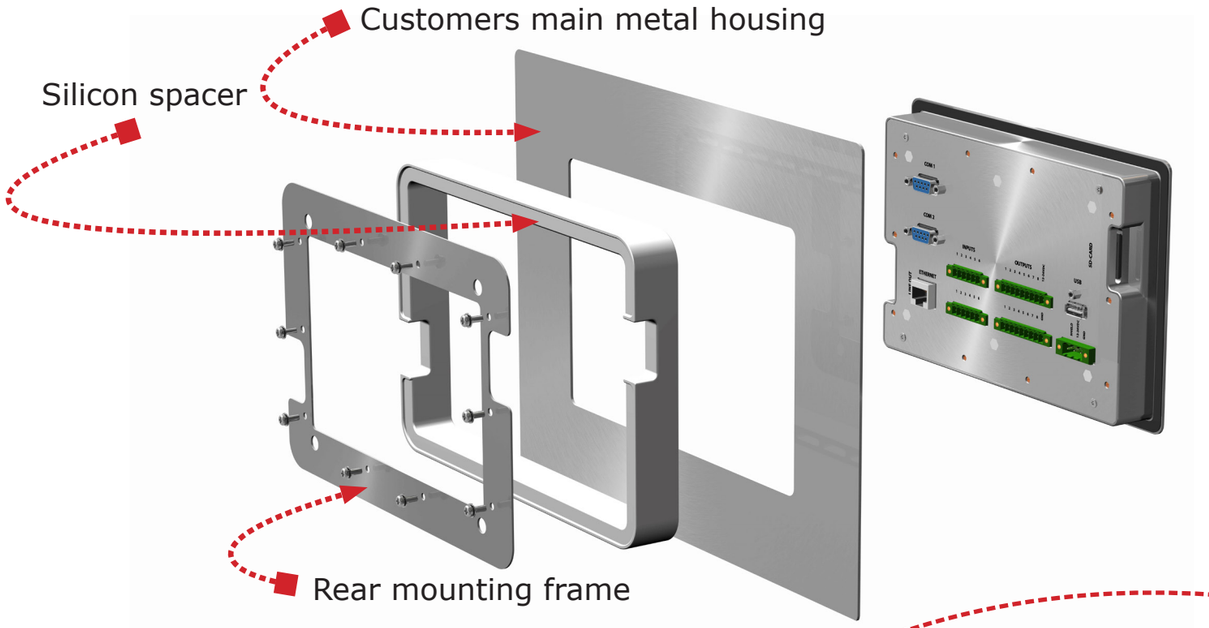
MECHANICAL INTEGRATION AND CUSTOMISATION

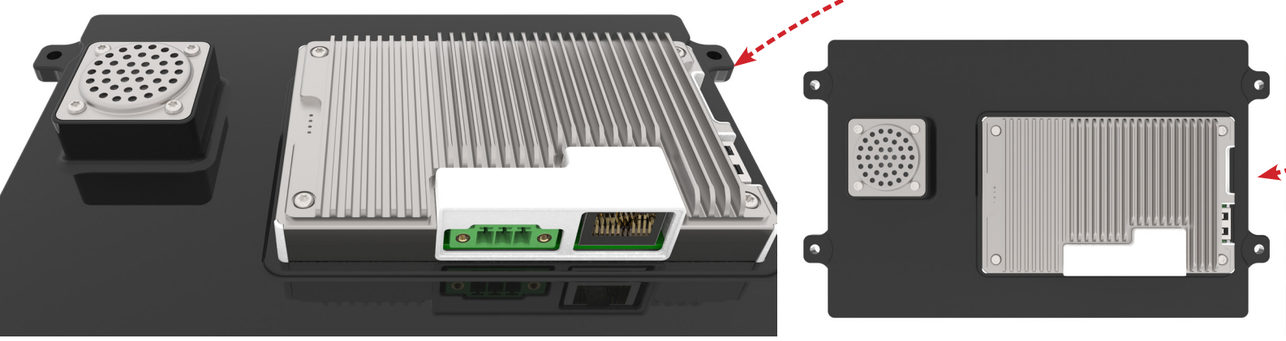
Our modular design philosophy allows you to focus your energy and resources on your core product development

A poor mechanical design can cause many headaches, delays and costly redesigns.

Our sleek and robust Panel PC solutions have been designed for easy installation and mounting into your end product, machine or wall mounted equipment. DLOGIC offers front mounted IP65 or greater stainless steel versions as standard for such applications.

Application : Car Wash Controller
DL-DM700x-SGR Industrial Touch Display Computer





Application : Automotive Recreational Vehicles

Product Series : DL-DM700x-RV

Front mounted 7” Touch Display Module with ‘blind mounting for easy installation and maintenance in recreational vehicles (RVs)

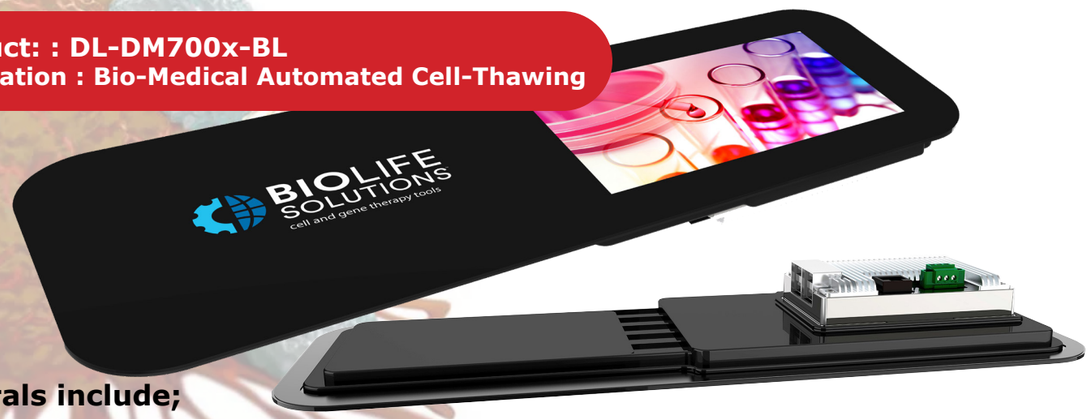


Application : Oscilloscope
DL-DM700x-SGR-SP series Customised

- integrated single piece ABS/PC housing
- screw-in mounting lugs,
- custom speaker housing

MORE EXAMPLES OF CUSTOMISED PRODUCTS DESIGNED ON THE DLOGIC STANDARD PLATFORM

Product: : DL-DM700x-BL
Application : Bio-Medical Automated Cell-Thawing



Peripherals include;

- Optically Bonded Touch Display Computer
- 7.0” 800x480 IPS TFT Display
- LED backlight, 550cd/m2 luminous intensity (typical)
- 1.1mm cover glass 374.5 x 134.5mm, Custom Logo, Blacklight for Logo)
- Capacitive Touch sensor, Microchip (Atmel) mxt series touch controller

Product: DL-DM1010x-IO
Application: Pneumatic Tube Delivery System



Peripherals include;

- 2 x Serial
- 2 x Ethernet
- Up to 4x USB 2.0
- 2 x RS485
- Stereo Audio
- microSD Card
- Power Input from 10V to 32V
- Integrated overvoltage protection
- Lockable Phoenix Connectors

Product: : DL-DM700X-LF
Application : Commercial Heating and Power Controller

Key Features:

- High Quality fully integrated PC/ABS Frame reinforced with a stainless-Steel Panel.
- 7-inch Display Panel with ultra-wide viewing angle and 550 cd/m² brightness
- High resolution capacitive multi-touch panel with Glove Touch, Water Droplets and Moisture support
- IP41 rated front panel
- Power Input from 10VDC to 32VDC, Nominal 24VDC
- Power consumption 6W
- Standard interfaces: Ethernet, Power





Test Standards:

- EN 61326.1: 2013
- EN 61000-3-2: 2014
- EN 61000-3-3: 2013,
- EN 55011: 2009 + A1: 2010
- IEC 61000-4-2: 2008
- IEC 61000-4-3: 2006 + A1: 2007 + A2: 2010
- IEC 61000-4-4: 2012
- IEC 61000-4-5: 2014
- IEC 61000-4-6: 2013
- IEC 61000-4-8: 2009
- IEC 61000-4-11: 2004

Base Standard:

UL 61010-1, 3rd Edition, May 11, 2012, Revised April 29.2016, CAN/CSA-C22.2 No. 61010-1-12, 3rd Edition, Revision dated April 29 2016

Particular Standard:

- IEC 61010-2-201: 2013 (First Edition)

- UL Category Control Numbers:
- UL NRAQ1 Programmable Controllers, Listed for United States
- UL NRAQ7 Programmable Controllers, Listed for Canada

Environmental Certification

- Standard: EN 60529: 1989 + A1: 1999 + A2: 2013, IP41

OTHER CUSTOMISED PRODUCTS NOW AVAILABLE AS STANDARD PRODUCTION ITEMS

Product: DL-DM1010-WT
Application: Industrial Web Terminal

Web terminal based on HTML5 and Chromium browser. Numerous application possibilities.



Java

Qt



Product: DL-DM500x-2U
Application: 2U Rack Mounted Touch Controller

Designed specifically for 2U high rack mounted installations - 5.0” 1280x720 resolution, high brightness, wide angle IPS Display

- Optically bonded Projected Capacitive Touch Panel
- Two (2) port Gigabit Ethernet





Product: DL-DM1010x-MARINE
Application: Marine System Controller

Capacitive high-bright touch display offers impressive daylight visibility with crisp graphic detail and elegant touch sensitivity, NMEA2000 compatible.





STANDARD PRODUCT LIST

Our high performance Projected Capacitive Touch and TFT Display Computers and Monitors come with a long list of standard features, suitable for a wide range of applications.

Touch Display Computers / Panel PCs

INDUSTRIAL SERIES

SERIES	SIZE	ORDER CODE	DISPLAY RESOLUTION	BACKLIGHT LUMINANCE [CD/M2]	CAPACITIVE TOUCH PANEL	OPTICAL BONDING	X SERIES	I SERIES
DL-DM500x	5.0″	101873	800 X 480	550	■	■	■	
DL-DM500i	5.0″	101894	800 X 480	550	■			■
DL-DM500x-2U	5.0″	102439	800 X 480	550	■			
DL-DM700x	7.0″	101853	1024 X 600	550	■	■	■	
DL-DM700i	7.0″	101895	1024 X 600	550	■	■		■
DL-DM900x	9.0″	101874	800 X 480	550	■		■	
DL-DM900i	9.0″	101896	800 X 480	550	■			■
DL-DM1010x	10.1″	101875	1280 x 800	550	■	■	■	
DL-DM1210x	12.1″	101876	1024 x 768	550	■	■	■	
DL-DM1560x	15.0″	101877	1920 x 1080	550	■	■	■	

TOUGH GLASS SERIES - FRONT MOUNT, 4MM SAFETY GLASS, UL751 S46B

SERIES	SIZE	ORDER CODE	DISPLAY RESOLUTION	BACKLIGHT LUMINANCE [CD/M2]	CAPACITIVE TOUCH PANEL	OPTICAL BONDING	X SERIES	I SERIES
DL-DM500x-SGF	5.0″	101883	800 X 480	550	■	2 LAYER	■	
DL-DM500i-SGF	5.0″	101898	800 X 480	550	■	2 LAYER		■
DL-DM700x-SGF	7.0″	102209	1024 X 600	550	■	3 LAYER	■	
DL-DM700i-SGF	7.0″	100889	1024 X 600	550	■	3 LAYER		■
DL-DM700x-SGF IO	7.0″	101885	800 X 480	550	■	2 LAYER	■	
DL-DM900x-SGF	9.0″	101886	800 X 480	550	■	2 LAYER	■	
DL-DM900i-SGF	9.0″	101900	800 X 480	550	■	2 LAYER		■
DL-DM1010x-SGF	10.1″	101887	1280 x 800	550	■	3 LAYER	■	
DL-DM1210x-SGF	12.1″	101888	1024 X 768	550	■	3 LAYER	■	

TOUGH GLASS SERIES - REAR MOUNT, 4MM SAFETY GLASS, UL751 S46B

SERIES	SIZE	ORDER CODE	DISPLAY RESOLUTION	BACKLIGHT LUMINANCE [CD/M2]	CAPACITIVE TOUCH PANEL	OPTICAL BONDING	X SERIES	I SERIES
DL-DM500x-SGR	5.0″	101889	800 x 480	550	■	2 LAYER	■	
DL-DM500i-SGR	5.0″	101901	800 x 480	550	■	2 LAYER		■
DL-DM700x-SGR	7.0″	102211	1024 X 600	550	■	3 LAYER	■	
DL-DM700i-SGR	7.0″	102212	1024 X 600	550	■	3 LAYER		■
DL-DM900x-SGR	9.0″	101891	800 X 480	550	■	2 LAYER	■	
DL-DM900i-SGR	9.0″	101903	800 X 480	550	■	2 LAYER		■
DL-DM1010x-SGR	10.1″	101892	1280 x 800	550	■	3 LAYER	■	
DL-DM1210X-SGR	12.1″	102125	1024 X 800	550	■	3 LAYER	■	

Touch Display Monitors

INDUSTRIAL SERIES

SERIES	SIZE	ORDER CODE	DISPLAY RESOLUTION	BACKLIGHT LUMINANCE [CD/M2]	CAPACITIVE TOUCH PANEL	OPTICAL BONDING	LVDS	HDMI
DL-DM700-LVDS	7.0″	101670	1024 x 600	550	■	2 LAYER	■	
DL-DM900-LVDS	9.0″	101711	800 x 480	550	■	2 LAYER	■	
DL-DM1010-LVDS	10.1″	101795	1280 x 800	550	■	2 LAYER	■	
DL-DM700-HDMI	7.0″	102232	1024 x 600	550	■	2 LAYER		■
DL-DM-1010-HDMI	10.1″	101803	1280 x 800	550	■	2 LAYER		■
DL-DM1210-HDMI	12.1″	101694	1024 x 768	550	■	2 LAYER		■
DL-DM1560-HDMI	15.6″	101739	1920 x 1080	550	■	2 LAYER		■
DL-DM1560-HDMI-HB	15.6″	102461	1920 x 1080	550	■	2 LAYER		■

TOUGH GLASS SERIES - FRONT MOUNT, 4MM SAFETY GLASS, UL751 S46B

SERIES	SIZE	ORDER CODE	DISPLAY RESOLUTION	BACKLIGHT LUMINANCE [CD/M2]	CAPACITIVE TOUCH PANEL	OPTICAL BONDING	LVDS	HDMI
DL-DM700-LVDS-SGF	7.0″	101794	1024 x 600	550	■	3 LAYER	■	
DL-DM900-LVDS-SGF	9.0″	101795	800 x 480	550	■	2 LAYER	■	
DL-DM1010-HDMI-SGF	10.1″	101804	1280 x 800	550	■	3 LAYER		■
DL-DM1210-HDMI-SGF	12.1″	101805	1024 x 768	550	■	3 LAYER		■
DL-DM1560-HDMI-SGF	15.6″	102204	1920 x 1080	550	■	3 LAYER		■
DL-DM1560-HDMI-SGF-HB	15.6″	102600	1920 x 1080	550	■	3 LAYER		■
DL-DM4900-HDMI-SGF	49.0″	102262	1920 x 1080	550	■	3 LAYER		■

TOUGH GLASS SERIES - REAR MOUNT, 4MM SAFETY GLASS, UL751 S46B

SERIES	SIZE	ORDER CODE	DISPLAY RESOLUTION	BACKLIGHT LUMINANCE [CD/M2]	CAPACITIVE TOUCH PANEL	OPTICAL BONDING	LVDS	HDMI
DL-DM700-LVDS-SGR	7.0″	101799	1024 x 600	550	■	3 LAYER	■	
DL-DM900-LVDS-SGR	9.0″	101800	800 x 480	550	■	2 LAYER	■	
DL-DM1010-HDMI-SGR	10.1″	101806	1280 x 800	550	■	3 LAYER		■
DL-DM1210-HDMI-SGR	12.1″	101807	1024 x 768	550	■	3 LAYER		■
DL-DM1560-HDMI-SGR	15.6″	102205	1920 x 1080	550	■	3 LAYER		■
DL-DM1560-HDMI-SGR-HB	15.6″	102565	1920 x 1080	550	■	3 LAYER		■







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Product series : DL-DM500i-SGR-EP
Application : Forklift Power Management

5.0” 800 x 480 TFT, UWAT Ultra-wide viewing angle technology

- 4mm physically hardened cover lens
- Capacitive Touch
- MXP i.MXDL Automotive grade processor
- Interfaces : Deutsche connector DTM15-12PA, Ethernet, toggle switch
- Customised housing





ABOUT US

DLOGIC Europe GmbH headquartered in Altenburg, Germany, designs and manufacturers state of the art industrial touch display computers for wide range of applications, from the ground up. Built on Western business principles the owners, management and staff are of German, Swiss, Norwegian, English and Chinese native backgrounds.

Formed in 2008, we saw the success of the original iPhone and figured this would lead to a demand for sophisticated touch based graphical user interface devices across many markets and applications.

Since then we’ve developed and shipped a wide portfolio of standard touch-enabled display products, along with custom solutions for an array of OEM customers.

Our extensive knowledge and vast experience allows our engineering team to work closely with customers to meet the unique requirements for the most demanding applications. Our product realization services combine customized touch display computing technologies into a fully integrated and tested turnkey products.

At a time when manufacturing of electronic products to a large extent had moved to China we decided to locate our European engineering organization to Shenzhen, China, the largest electronics development zone in the world.

Combined with our own manufacturing capabilities, we work directly with the vast resources of the local electronics industry to develop our state of the art displays, touch sensors, mechanics and electronics technologies.

What we have today is a growing, highly skilled engineering organization on principles utilizing the best-in-class practices and world class local technology in the Silicon Valley of China.

Come talk to us, we can help.



DLOGIC



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