

# DLOGIC

## WORLD CLASS

TOUCH DISPLAY COMPUTERS

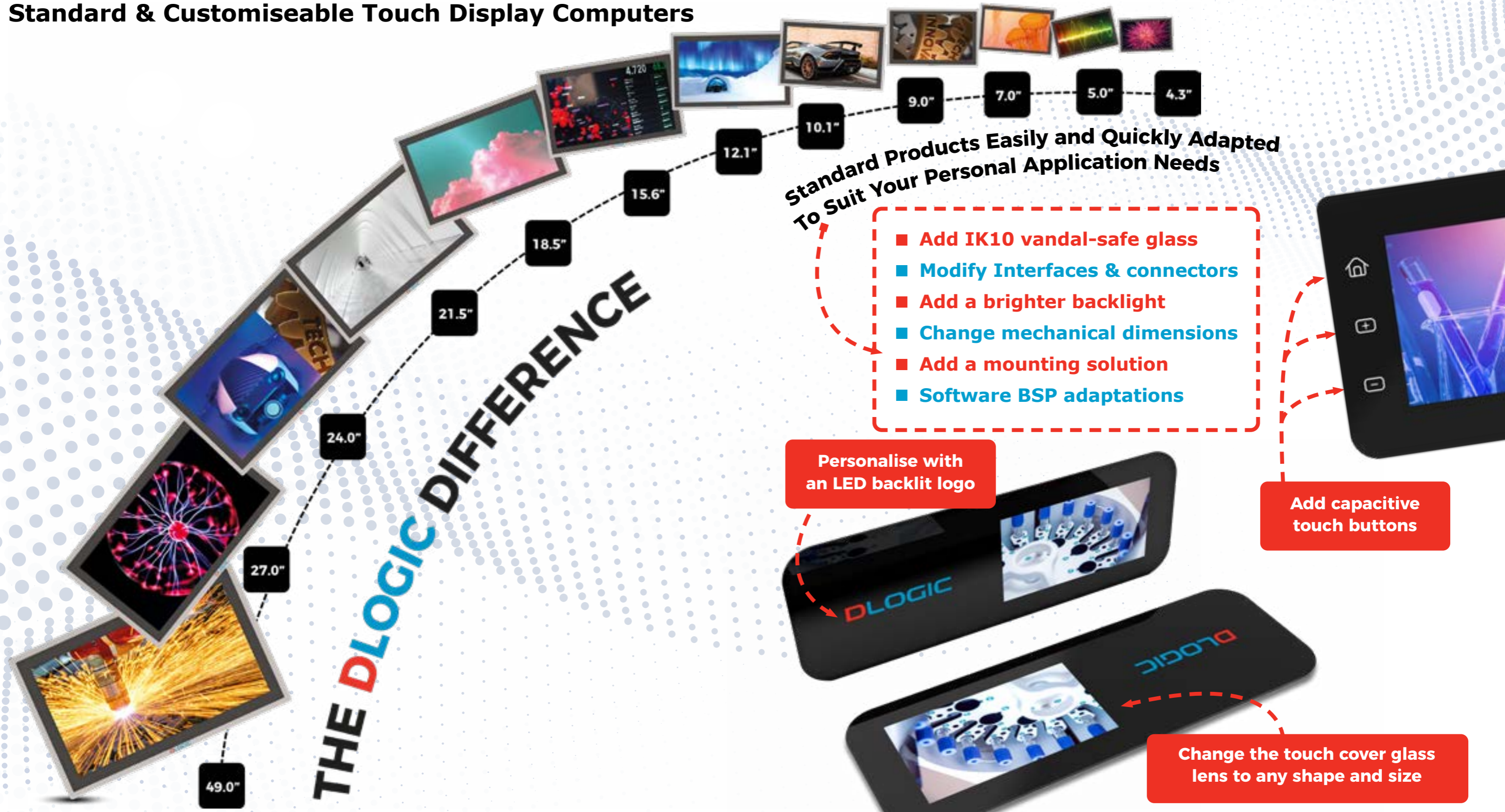
WEB TERMINALS

PANEL PCs and MONITORS



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# Standard & Customisable Touch Display Computers



INTRODUCTION	STANDARD COMPUTER PLATFORM	TOUCH DISPLAY MONITORS	VANDAL RESISTANT & OPTICAL BONDING	MECHANICAL INTEGRATION	APPLICATIONS	APPLICATIONS & QUALITY	SOFTWARE PLATFORMS	DEVELOPMENT KIT & BSP	STANDARD PRODUCT LIST	ABOUT US
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# Touch Display Computers Standard Product Features

Sleek and modern design, high performance 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 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

### NEW NXP i.MX8M

The i.MX 8 series of applications processors, part of the EdgeVerse™ edge computing platform, is a feature and performance-scalable multicore platform based on the Arm® Cortex® architecture—including combined advanced graphics, imaging, machine vision, audio, voice, video and safety-critical applications.

## STANDARD PERIPHERALS

- 1 or 2 Ethernet ports
- 1 to 4 USB ports
- I2C, SPI, PWM, GPIOs
- 1 or 2 CAN buses
- 1 or 2 Serial RS232/RS485 ports
- SDCard
- Audio options, analog and digital S/PDIF

## 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

## IO-SERIES

- Power
- Up to 4 USB ports
- 2 Ethernet ports
- 2 Serial ports
- 2 RS485
- microSD card
- Stereo Audio

## 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 5 or 6, Java, Html5, mono/.net
- Fully functional board support package (BSP) with Docker and VirtualBox
- 100% supported in-house by DLOGIC



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# Touch Display Monitors

## Want to use your own computer? No Problem!

Our high performance Projected Capacitive Touch Monitors are designed to interface to any 3rd party eDP, HDMI or LVDS embedded or computer solution.

- Current product range includes
- 7" 10.1" 12.1" HDMI touch monitors
- 15.6" 18.5", 21.5", 23.8", 27", 49" HDMI and DP touch monitors @ 1080p
- 27" HDMI @ 4k resolution touch monitor
- Available with IK10 vandal-resistant safety glass
- Other sizes / resolutions on request

**Product: DL-DM1850-6U**  
**Application : Harsh Environment 18.5" 6U**  
**Rack-mounted touch monitor**



**Product: DL-DM1490-HDMI-2U**  
**Application : Control Tower 2U Rack-mounted 14.9" Touch Monitor**



**Product: DL-DM2380-Marine**  
**Application: Cargo Ship Control Room**



**Product: DL-DM2700-4K**  
**Application: Medical Diagnostics Machine**



**Product: Customised 49" 1080x1920 Touch Monitor**  
**Application: Vending Machine**



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# Vandal-Resistant, Ruggedised and Tough

Our Vandal-Resistant technologies are typically designed for our customers specific application. A few examples are, 24.0", IK10 laminated glass touch monitors for **EV Charging Stations**, as well as 7.0", 9.0", 10.1" and 49.0" UL751 S46B multi-layer, physically hardened capacitive touch monitors for **Outdoor Vending Machines**.

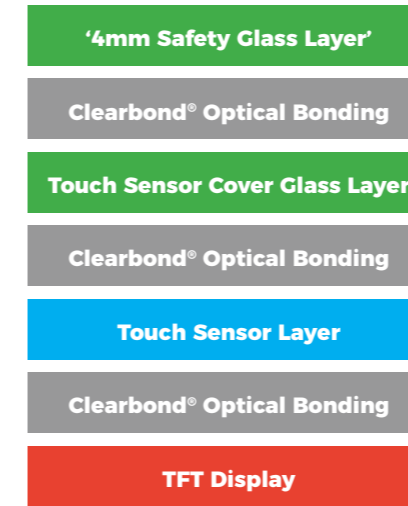


Illustration of standard **DL-DM700x-SGR** series with 4mm safety glass, rear mounted, flush mounted within the door frame.

## Front Mounting

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 utilising our ClearBond™ optical bonding technology

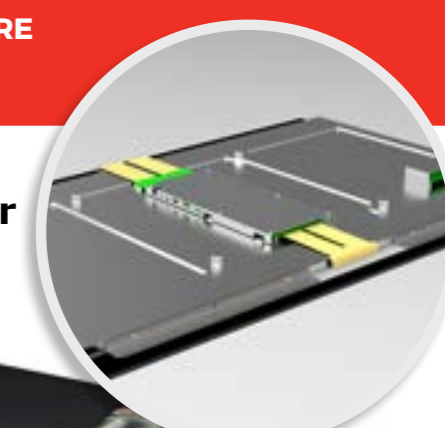
**Application :** Outdoor Vending

**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



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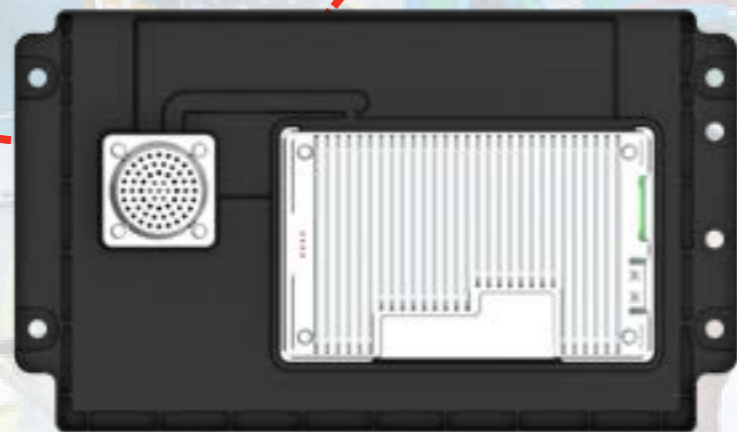
# Mechanical Integration and Customisation

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.

**Product: DL-DM700x-SGR-SP**  
Series Customised  
Application: Oscilloscope



- Integrated single piece ABS/PC housing
- Screw-in mounting lugs,
- Custom speaker housing

**Product: DL-DM700x-RV**

**Application: Automotive Recreational Vehicle (RV) auxillary controller**

- Front mounted 7" Touch Display Computer
- Spring-Loaded Blind Mounting
- Easy Installation and Maintenance



**Another example**

Customers main metal housing



Rear mounting frame

**LONG-LIFE SUPPLY GUARANTEE**



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# More product examples

**Product: DL-DM1010q (i.MX8M Plus Quad Arm Cortex A53)**  
**Application: Industrial Web Terminal**

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



**NEW!**  
 7", 10.1", 15.6", 18.5",  
 21.5", 23.8", 27.0"  
 Web Terminals

**Product: DL-DM1010q-IO (i.MX8M Plus Quad Arm Cortex A53)**  
**Application: Pneumatic Tube Delivery System**



**NEW!**  
 15.6", 18.5", 21.5",  
 23.8", 27.0"

**Peripherals include;**

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

**Product: DL-DM700x-USB (i.MX6DL ARM CORTEX A9)**  
**Application: Laboratory equipment**

- 7.0" 1024x600 IPS TFT Display
- Optically bonded Projected Capacitive Touch panel
- 4 port USB, Ethernet
- 20 pin peripheral interface connector



**Product: DL-DM1010x-MARINE (i.MX8M Dual Arm Cortex A53)**  
**Application: Marine System Controller**

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



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**Product: DL-DM700x-LF**

**Application: Commercial Heating & 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/m<sup>2</sup> 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 +
- 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



## 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.





# 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.**

## 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**
- **Various GUI support, Qt 5 or 6, Java, HTML5, mono/.net**
- **VPU hardware video encoding/decoding support**
- **QT5 OR QT6 run-time libraries**
- **Java runtime environment option**
- **HTML5 browser support**



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



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# 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.



## Development Kit includes

- DLOGIC DM 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 of responsive modern user interface applications
- QT5 & QT6, 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



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# 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.

## Industrial and Medical Series

Industrial Touch Display Computer						
Model	Size	Order Code	Resolution	Luminance	Touch Panel	Processor
DL-DM500i	5.0"	101894	800 x 480	550	■	i.MX6ULL ARM CORTEX A7
DL-DM700i	7.0"	102867	1024 x 600	550	■	i.MX6ULL ARM CORTEX A7
DL-DM900i	9.0"	103544	1024 x 600	550	■	i.MX6ULL ARM CORTEX A7
DL-DM500x	5.0"	103410	800 x 480	550	■	i.MX6DL DUAL ARM CORTEX A9
DL-DM500x-2U	5.0"	103396	854 x 480	700	■	i.MX6DL DUAL ARM CORTEX A9
DL-DM500q-2U	5.0"	101916	854 x 480	700	■	i.MX6Q QUAD ARM CORTEX A9
DL-DM700x	7.0"	103435	1024 x 600	550	■	i.MX6DL DUAL ARM CORTEX A9
DL-DM700x-USB	7.0"	103445	1024 x 600	550	■	i.MX6DL DUAL ARM CORTEX A9
DL-DM900x	9.0"	103545	1024 x 600	550	■	i.MX6DL DUAL ARM CORTEX A9
DL-DM1010x	10.1"	103438	1280 x 800	550	■	i.MX6DL DUAL ARM CORTEX A9
DL-DM1010x-IO	10.1"	102982	1280 X 800	550	■	i.MX6DL DUAL ARM CORTEX A9
DL-DM1210x	12.1"	103546	1280 x 800	550	■	i.MX6DL DUAL ARM CORTEX A9
DL-DM1560x	15.6"	101877	1920 x 1080	550, 1000	■	i.MX6DL DUAL ARM CORTEX A9
DL-DM700q	7.0"	103513	1024 x 600	550	■	i.MX8M PLUS QUAD ARM CORTEX A53
DL-DM1010q	10.1"	103514	1280 x 800	550	■	i.MX8M PLUS QUAD ARM CORTEX A53
DL-DM1010q-IO	10.1"	103384	1280 x 800	550	■	i.MX8M PLUS QUAD ARM CORTEX A53
DL-DM1560q	15.6"	103551	1280 x 800	450	■	i.MX8M PLUS QUAD ARM CORTEX A53
DL-DM1560q-IO	15.6"	103439	1920 x 1080	450	■	i.MX8M PLUS QUAD ARM CORTEX A53

Additional size in development

Touch Display Monitor								
Model	Size	Order Code	Resolution	Luminance	Capacitive Touch Panel	Optical Bonding	Safety Glass Front Mount	Safety Glass Rear Mount
DL-DM700	7.0"	103547	1024 x 600	550	USB Touch	■	■	■
DL-DM1010	10.1"	103548	1280 x 800	550	USB Touch	■	■	■
DL-DM1210	12.1"	103549	1280 x 800	600	USB Touch	■	■	■
DL-DM1560	15.6"	103550	1920 x 1080	550, 1000	USB Touch	■	■	■
DL-DM1850	18.5"	103323	1920 x 1080	1000	USB Touch	■	■	■
DL-DM2150	21.5"	103314	1920 x 1080	1000	USB Touch	■	■	■
DL-DM2380	23.8"	103308	1920 x 1080	1000	USB Touch	■	■	■
DL-DM2700	27.0"	103479	1920 x 1080	1000	USB Touch	■	■	■
DL-DM2700-4k	27.0"	103478	3840 x 2160	1000	USB Touch	■	■	■

## NEW NXP i-MX8M

The i.MX 8 series of applications processors, part of the EdgeVerse™ edge computing platform, is a feature and performance-scalable multicore platform based on the Arm® Cortex® architecture—including combined advanced graphics, imaging, machine vision, audio, voice, video and safety-critical applications.



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## Marine Series

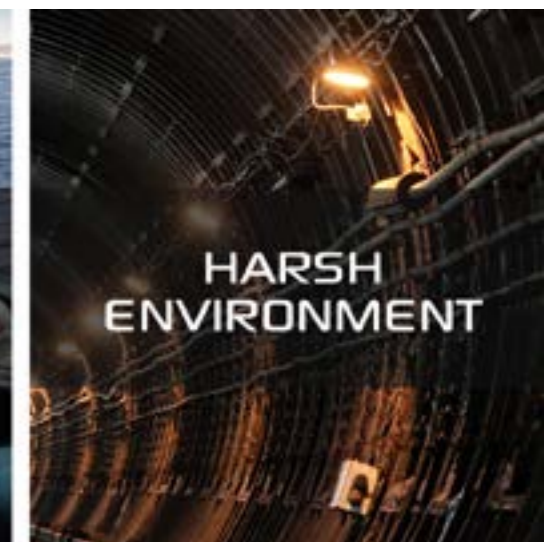
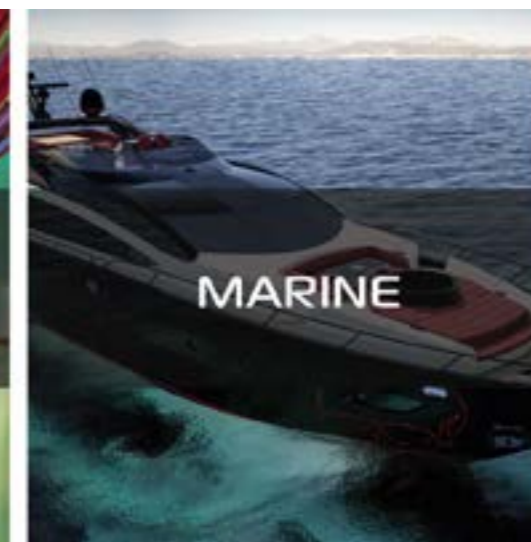
Marine Touch Display Computer (All with Processor - i.MX6DL DUAL ARM CORTEX A9)								
Model	Size	Order Code	Resolution	Luminance	Capacitive Touch Panel	Optical Bonding	Safety Glass Front Mount	Safety Glass Rear Mount
DL-DM500x-MARINE	5.0"	103410	800 x 480	550	■		■	
DL-DM700x-MARINE	7.0"	103148	1024 x 600	550	■	■	■	
DL-DM1010x-MARINE	10.1"	101828	1280 x 800	550	■	■	■	

Marine Touch Monitor (All with HDMI & Display Port Display Interfaces)								
Model	Size	Order Code	Resolution	Luminance	Capacitive Touch Panel	Optical Bonding	Safety Glass Front Mount	Safety Glass Rear Mount
DL-DM1850-MARINE	18.5"	103323	1920 X 1080	1000	■	■	■	■
DL-DM2150-MARINE	21.5"	103314	1920 X 1080	1000	■	■	■	■
DL-DM2380-MARINE	23.8"	103308	1920 X 1080	1000	■	■	■	■
DL-DM2700-MARINE	27.0"	103552	1920 X 1080	1000	■	■	■	■

Marine Monitor (All with HDMI & Display Port Display Interfaces)								
Model	Size	Order Code	Resolution	Luminance	Capacitive Touch Panel	Optical Bonding	Safety Glass Front Mount	Safety Glass Rear Mount
DL-DM1850-MARINE	18.5"	103320	1920 X 1080	1000		■	■	■
DL-DM2150-MARINE	21.5"	103317	1920 X 1080	1000		■	■	■
DL-DM2380-MARINE	23.8"	103311	1920 X 1080	1000		■	■	■
DL-DM2700-MARINE	27.0"	103553	1920 X 1080	1000		■	■	■

## 19" Rack Mount Series

Touch Display Solutions							
Model	Size	Order Code	Resolution	Luminance	Capacitive Touch Panel	Optical Bonding	Display Interfaces
DL-CP1100-1U	11.0"	102884	1280 X 120	600	■		i.MX6DL DUAL ARM CORTEX A9
DL-DM1490-2U	14.9"	102377	1280 X 242	450	■	■	HDMI
DL-DM1850-6U	18.5"	103385	1920 X 1080	1000	■	■	HDMI



## Partner Companies

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**Product: 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.



## European Headquarters

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