

## PRESENTING iLCD LINUX

Take your device to the next level of sophistication with iLCD Linux to develop even more powerful applications.

This new series has all the hallmarks of the F-Series, including the high-quality, optically bonded displays, slim form factor, I/Os and multi-touch support, but equipped with a fully customizable Yocto Linux operating system.

Get an edge over your competition with faster 3D rendering, higher resolution and seamless integration into your hardware.



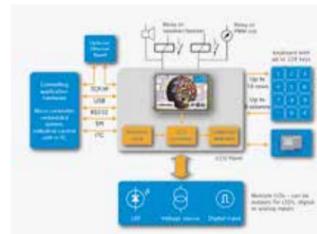
## ALL IN ONE

demmel's iLCD Linux is a versatile solution for high-tech devices. Enjoy all the possibilities of a fully fledged operating system that interfaces directly with your device.

- 1.8 GHz quad-core i.MX8M Plus processor
- Dedicated hardware accelerators for graphics and video
- Ethernet, WiFi 6, Bluetooth 5.0, I2C, SPI, RS232, GPIOs, PWM Signals, ...

You can use our custom linux image with preset hardware configuration, which includes a desktop, browser and demo projects or make your own build. We offer all the support you need to get started. Use any app development suite to write your application.

## SAVE MONEY



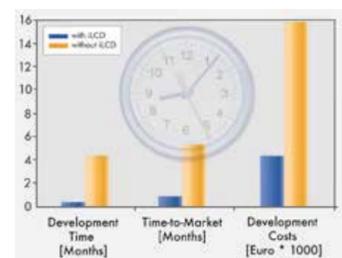
The comprehensive iLCD's hardware equipment helps to reduce the bill of materials of your device. There is no need to use an expensive controller in your application, even the 10.2" iLCD panel with 1280x800 pixel can be controlled by a low-cost microcontroller via USB, RS232, I2C, SPI or Ethernet. Alternatively, any iLCD JPro can be programmed and controlled with Java to run your device.

Up to 128 MByte on-board flash memory for storing fonts, graphics, and macros supports even the most complex applications.

A MicroSD card holder enables you to extend your memory to any desired capacity. All iLCD panels require 5 Volts only, connect to a keyboard matrix with up to 128 keys, digital and analog I/Os, relays and a sound transducer.

### USING iLCDs REDUCES APPLICATION DEVELOPMENT COSTS.

## SAVE TIME



Developing your own LCD hardware requires studying stacks of controller specification documents and tedious pixel-level programming. iLCDs free you from the drudgery with an easy-to-learn high-level command protocol.

iLCD's built-in support for rendering and aligning text with Windows fonts, displaying static and animated graphics, drawing borders and lines and controlling the touch screen will dramatically reduce development time.

### iLCDs HELPS YOU REDUCE I/O AND SCREEN DEVELOPMENT EFFORT FROM SEVERAL MONTHS TO A MATTER OF DAYS.

With the easy-to-use Windows-based Integrated Development Environment (IDE) iLCD Manager XE, designing applications for touch screen iLCD panels in practically no time has never been easier.

Thanks to new features such as Parameter Completion and Syntax Checking/Highlighting, no programming skills are required to design state-of-the-art graphical interfaces.

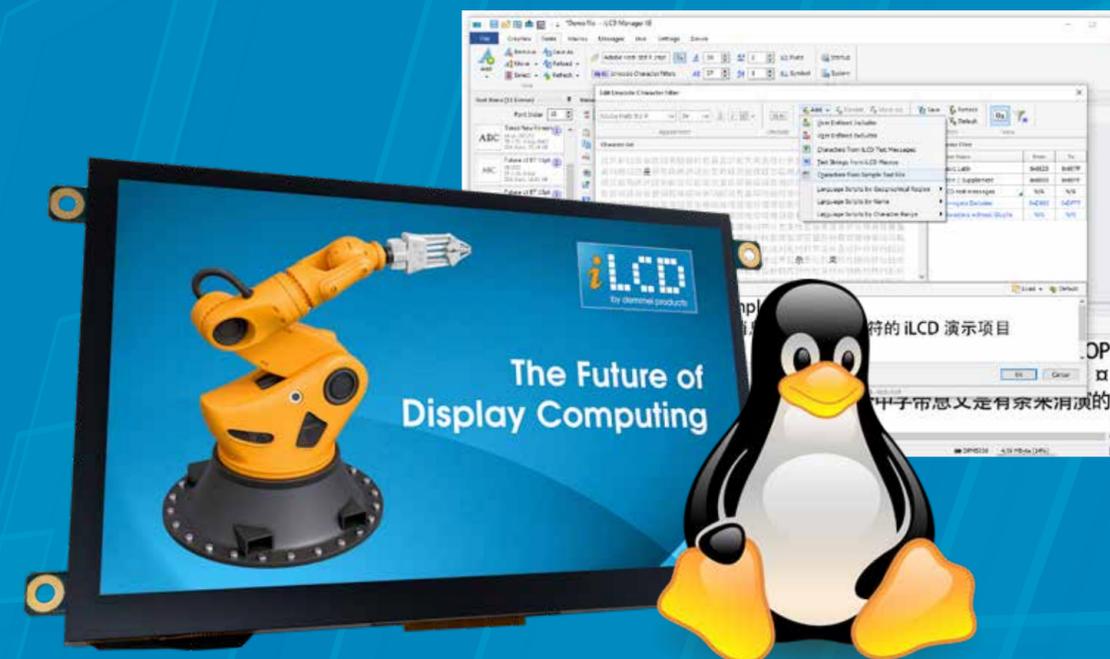
Well-structured sample and demo projects promote a hands-on access to the powerful command set and can be customized and adopted for user applications. iLCD Manager XE can be used royalty free and is available on [www.ilcd.info](http://www.ilcd.info)

### USING iLCDs SAVES MANPOWER.

## SAVE MANPOWER



# demmel products presents THE NEW F-SERIES



## and iLCD LINUX

THE iLCD FAMILY JUST GOT EVEN BIGGER, FASTER AND MORE DIVERSE FOR MORE VERSATILE APPLICATIONS



MORE INFO AT [WWW.ILCD.INFO](http://WWW.ILCD.INFO)

Save Money.

Save Time.

Save Manpower.

## NEXT GENERATION INTELLIGENT LCDs

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[www.ilcd.info](http://www.ilcd.info)



SAVE MONEY.

SAVE TIME.

SAVE MANPOWER.

### THE NEW F-SERIES

At a scale of 1:2



#### DPP-FHx102

1280x800 px 10.2" cap. touch

#### DPP-FHx70

1024x600 px 7.0" cap. touch

#### DPP-Fx57

640x480 px 5.7" res. touch

#### DPP-FHx50

800x480 px 5.0" cap. touch

#### DPP-FHx43

800x480 px 4.3" cap. touch

#### DPP-FHx35

640x480px 3.5" cap. touch

### FEATURES

- More than 250 high level commands
- Use any anti-aliased Windows font for your screens
- Display static and animated graphics
- Control the touch screen
- Text wrapping and alignment
- Macros and text templates
- Multiple screens and viewports
- Scaling of text and graphics
- Multi-language support
- Java programmable

### CLASSIC iLCDs

At a scale of 1:1

#### DPP-CTS2432

240x320 px 2.8" res. touch

#### DPP-CTS2440

240x400 px 3.0" res. touch

### SPECIFICATION

- 32-bit DPC3050 iLCD controller
- Supports landscape and portrait mode
- USB, TTL RS232, I<sup>2</sup>C, SPI and Ethernet ports
- 2 MByte flash memory for fonts and graphics
- I/Os for relays, speaker, matrix keyboard and LEDs
- Battery backed real-time clock on board



### iLCD Accessories

for faster results

#### STARTER KIT

- Temperature & humidity sensor
- Proximity & brightness sensor
- Accelerometer
- RGB-LED
- USB-C connector



#### Interface Boards

- Ethernet
- USB
- RS-232
- Universal 24 pin
- and more



#### Custom Solutions

At demmel products we're happy to provide customized solutions such as individual cover glasses or frames.



### WHAT IS NEW

The F-Series is demmel products' new line of intelligent displays, which are fully compatible with previous releases in terms of functionality and physical parameters. With this new series we've vastly improved performance by introducing a more powerful System on a Module (SoM) to the design, which we call DPM5050.

As fast as the new processor is, speed isn't everything. We've therefore introduced up-to-date, optically banded, high-brightness and higher resolution displays. These deliver crisper images, are more durable and sunlight-readable.

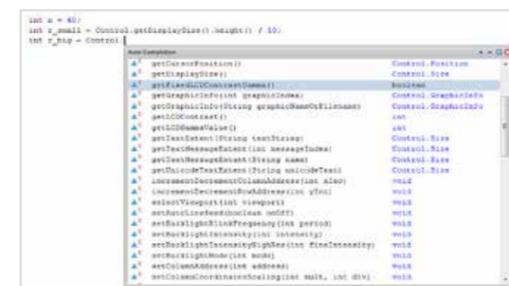
The 10.2" and 3.5" displays are currently under development and will be released later this year. The 2.8" and 3.0" models are currently not part of the F-Series but will continue to be available going forward.

### DISPLAY COMPUTING WITH JAVA

In addition to the convenient high-level commands, iLCDs can be programmed with Java, the widespread programming language familiar to most software developers. The iLCD Manager XE accommodates a complete Java development environment for editing, compiling and debugging state-of-the-art HMI applications. Java's object oriented approach is particularly suitable for user interface applications.

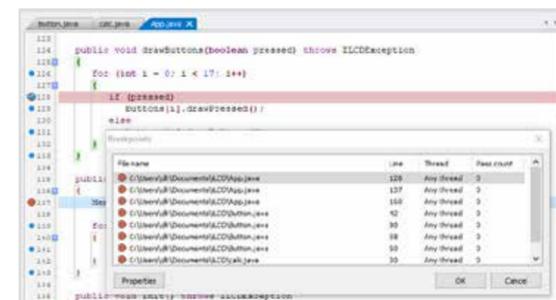


### CODE AUTO COMPLETION



- Auto complete all objects and methods implemented by demmel products
- Use keyboard shortcuts for activation and selection

### BREAKPOINT LIST



- Define arbitrary breakpoints in your Java code
- Step through the breakpoints when debugging remotely
- See the passcount for each breakpoint

### PARAMETER WATCHLIST



- Add expressions to your watchlist to monitor their value
- Debugger evaluates and updates items listed when program execution pauses