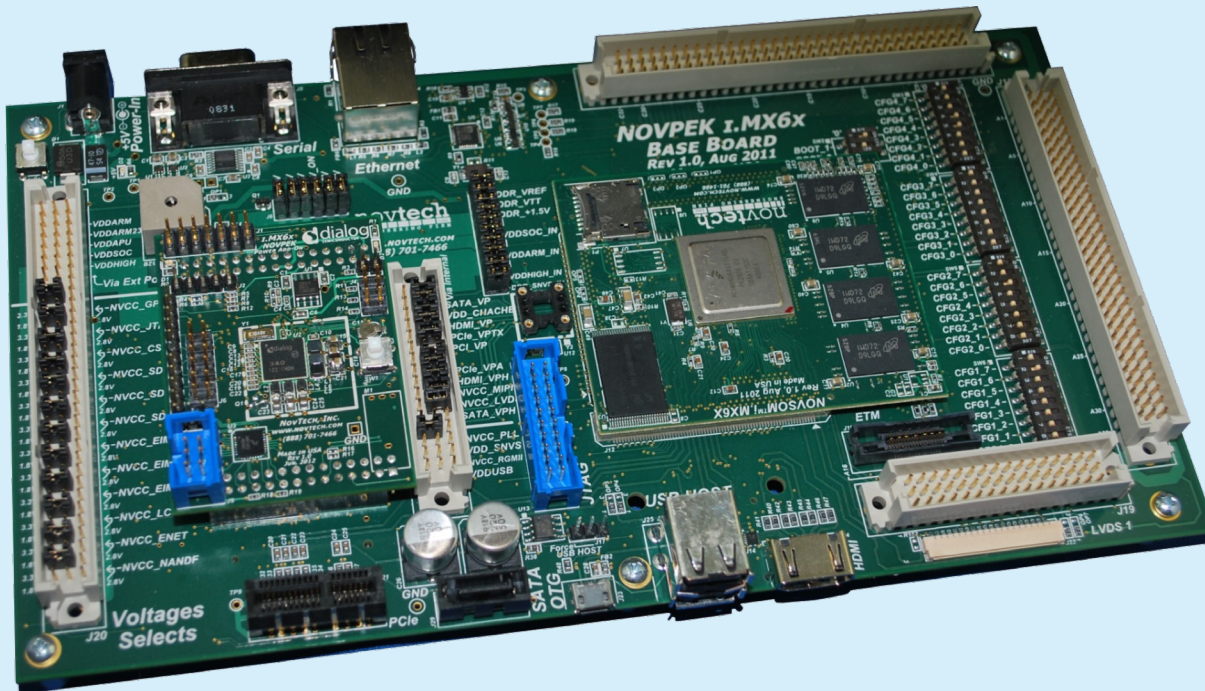


# NOVPEK i.MX6x-DLG

## Platform Evaluation Kit

*Unleash the power of the i.MX6x SoC*

The NOVPEK™i.MX 6 Platform Evaluation Kit was developed with close collaboration with NXP to give OEMs a flexible platform to evaluate i.MX6 processors by giving access to all the available I/Os on the device. The platform evaluation kit comes with software to help engineers quickly get started.



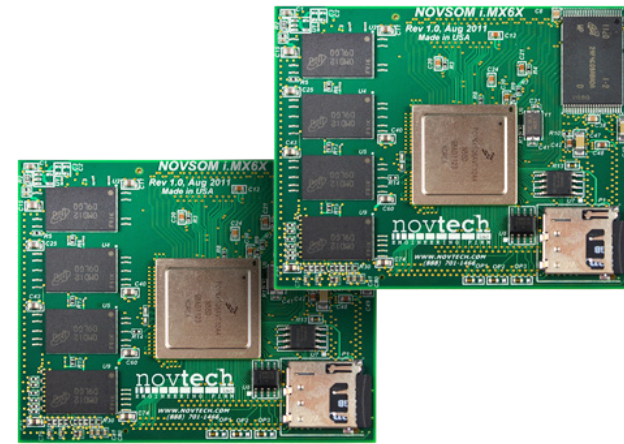
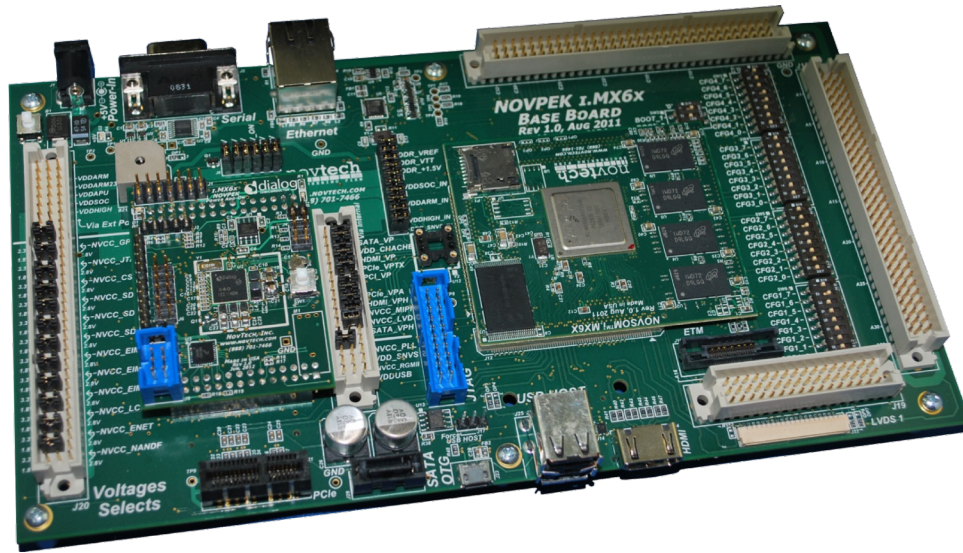
### Kit Contents:

#### Hardware

- NOV SOM®i.MX6 Module
- NOVPEK™i.MX6x-DLG base-board
- NovTech's Dialog based PM solution
- AC/DC Power supply

#### Software and documentation

- Quick Start Guide
  - Boot-loader
  - Linux Porting
  - QNX Porting
  - Android Porting
- To be released:*
- CE Porting



## Features

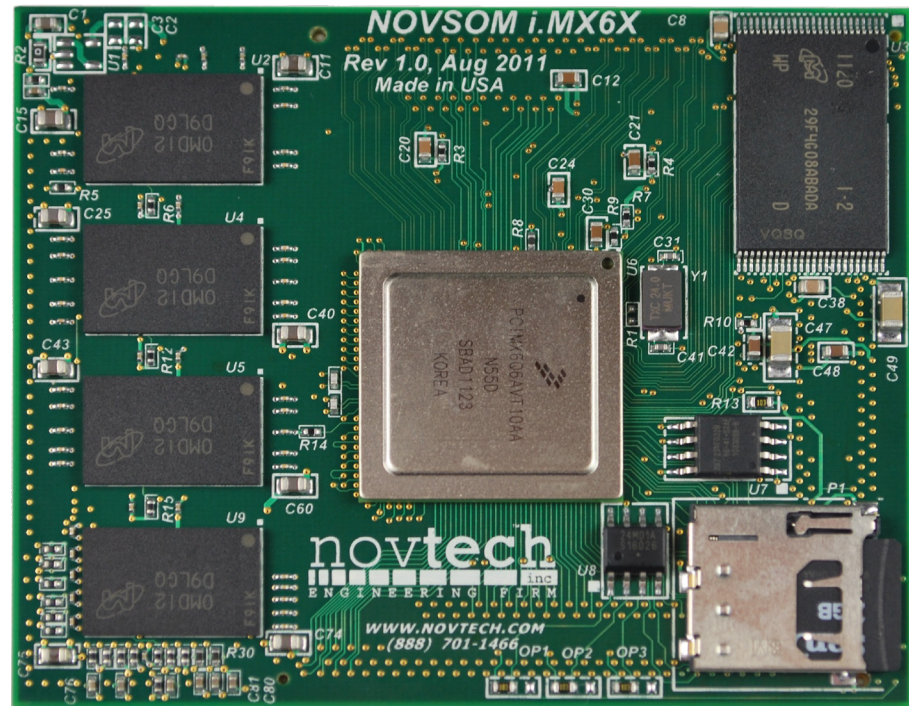
- 201 easily accesible IOMUX pins
  - › Arranged in two 32x3 & one 16x3 100mil pin headers
- Supports all dedicated i.MX6x peripherals, USB OTG, USB Host, SATA, LVDS, PCIe, HDMI and MIPI/SDI
- Advanced Power Management (PM) development support
  - › Add-on card, multiple custom solutions available
  - › Multiple voltage settings for each peripheral voltage rail
  - › Accurate power consumption analysis framework for all voltage rails on the i.MX6x
- On-board debug ports: JTAG and 16Bit ETM
- Bootable with terminal support
  - › RS232 and TTL interfaces, only uses two i.MX6x pins (two IOMUX options)
- All i.MX6x boot options available
- Simplified firmware/development through 10/100 Ethernet Port
  - › SPI based, does not consume the built-in FET
- USB OTG port can be forced to Host mode
- Highly integrated NovTech PM solution
  - › Multiple power-on events
  - › Reprogrammable for configurability



# NOVSOM®i.MX6x Module

## Features

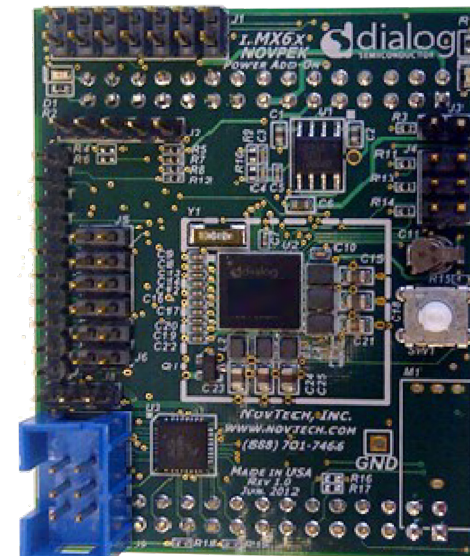
- All i.MX6x variants supported
- Up to 4GB DDR3
- On-board solid state storage/boot options
  - > μSD
  - > NAND Flash
  - > SPI Serial flash
  - > EEPROM
- On-board clocks
- All peripheral voltage ranges are supported
- Dimensions: 2.330" by 2.835"
- Board-to-Board height from 6mm to 16mm



# Dialog PMIC Module

This PMIC power module supports single to quad core variants of i.MX6 and is based on the NOVPEK™i.MX6x board. It has two modes of operation:

- LDO5 is always ON to support an external +3.3V  $\mu$ Controller to allow customised start-up sequences for low volume customer use.
- Pin selectable options to support powering the i.MX6 domains directly with DVFS control or fixed output voltages for use with the i.MX6 internal LDOs
- Input supply voltage range up to +5.5V for USB applications.
- 6 DC/DC and 11 LDO regulators with a total 14.2 A capability with 2 rail switches for system power tree control
- Dialog's System PMIC supports all i.MX6 needs while simultaneously powering and controlling the full 4GB of DDR memory and most peripheral system requirements



### NovTech Services:

- Design and prototype of add-on boards with four to six weeks lead time
- Customization of the base-board to customer requirements
- Design and prototype of a custom single board solution
- OS porting and device driver development (Linux, Android)
- Customization of NovTech highly integrated Power Management solution

For NOVPEK™i.MX6x  
pricing and availability, contact  
NovTech at (954) 341-3320, [info@novtech.com](mailto:info@novtech.com)

NovTech is a recognized third party and partner with some of the leading IC manufacturers and CAD companies

