

Interesting Items

Volume 19

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Caveats

- I came across these products in recent magazines
- I have not bought or used these products
- I do not endorse these products
- I do not know much more about these products than what is presented

3D Gesture System Development Kit

- Aurea graphic user interface software
- i²C to USB bridge module
- \$180



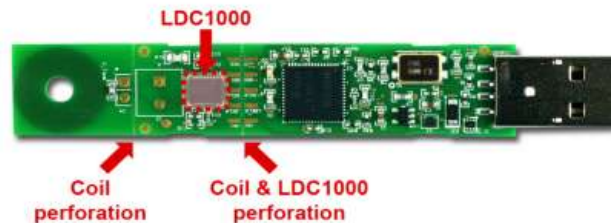
<http://www.eeweb.com/company-news/microchip/3d-gesture-systems-development-kit/>

Inductance to Digital Converter

- Applications in measuring position, motion, metal composition & spring compression, twisting, extension
- Contactless sensing
- Evaluation board \$29

Explore with LDC1000EVM

Inductive
Sensing



- EVM and GUI provide complete prototyping and evaluation platform
- USB interface allows control and evaluation of LDC1000 with GUI
- Includes 14-mm, 2-layer PCB coil sensor
 - Coil can be removed to allow prototyping with other coils, springs or inductors
- Coil and LDC1000 board section can be removed
 - Interface with other MCUs
 - Implement multi-channel prototyping

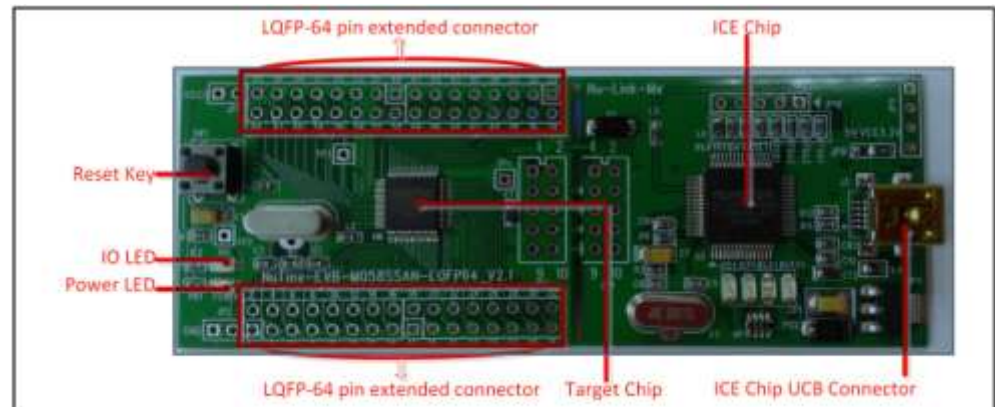
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TEXAS INSTRUMENTS



Microcontroller uses CORTEX M0 Core

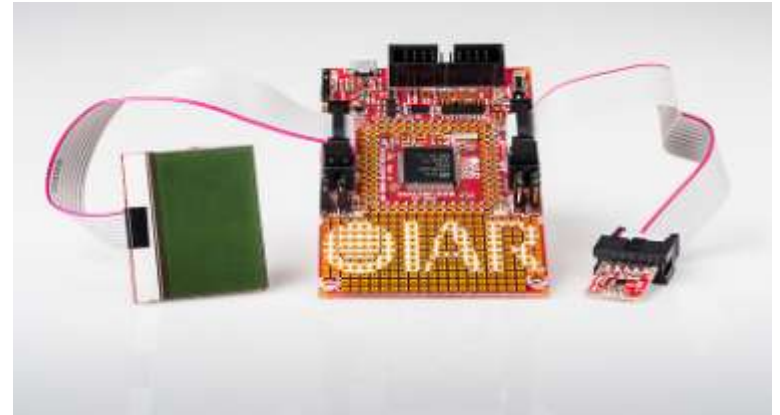
- MO58S 32-bit microcontroller
- 50 Mhz, 32K program flash, 4K data flash, 4 K data RAM
- Hardware multiplier , 5 timers, 2 PWM, UART, SPI, I²C
- 8 channel 12-bit A/D
- Development kit available - \$?



<http://www.nuvoton.com/hq/enu/ProductAndSales/ProductLines/MicrocontrollerApplicationIC/ARMMicrocontroller/ARMCortexTMM0/Documents/NuTiny-SDK-100%20user%20manual.pdf>

Experiment! Starter Kits

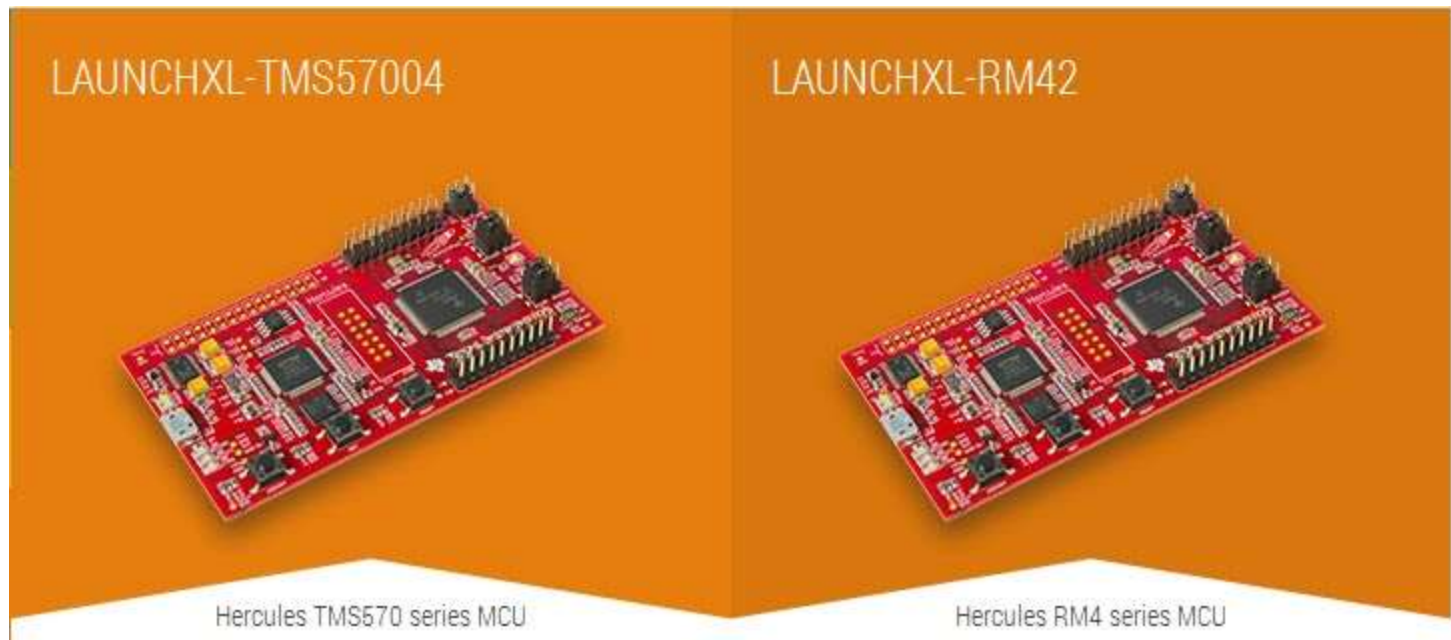
- Game controller & magnetometer - \$119 & \$94
- IAR System



<http://www.iar.com/Products/Starter-kits-debug-probes/>

TI Hercules LaunchPad

- TMS570 & RM4 microcontrollers - \$19.99
- 32-bit ARM – 80 Mhz, 384 K flash, 32 K RAM, 16 channel ADC, timer, SPI, UART, quadrature encoder, GIO



<http://www.ti.com/ww/en/launchpad/launchpads-hercules.html>

National Instruments roboRIO

- Dual-Core ARM Cortex – 667 Mhz - < \$450
- 256 MB RAM, 256 MB disk, 26 I/O, 8 Analog, 20 PWM, CAN port, 2 SPI, 2 I²C, 2 USB, 8 relays, RS232, USB, ethernet
- First Robotics Competition

