



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



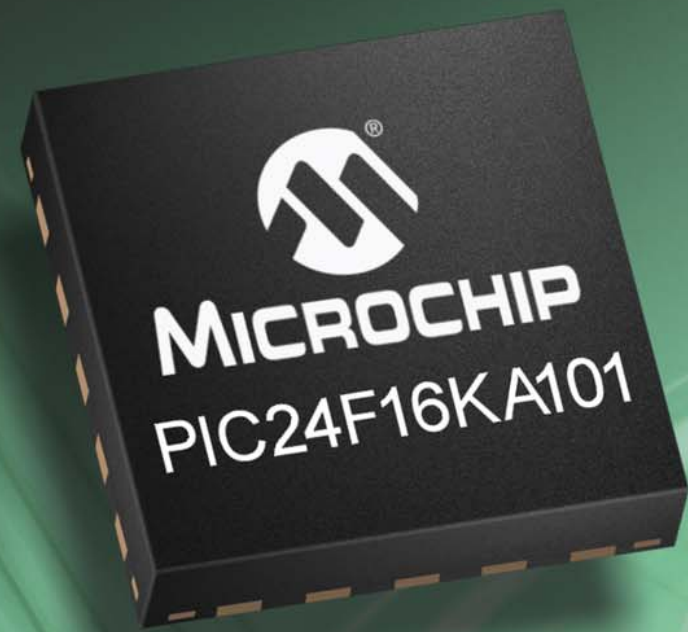
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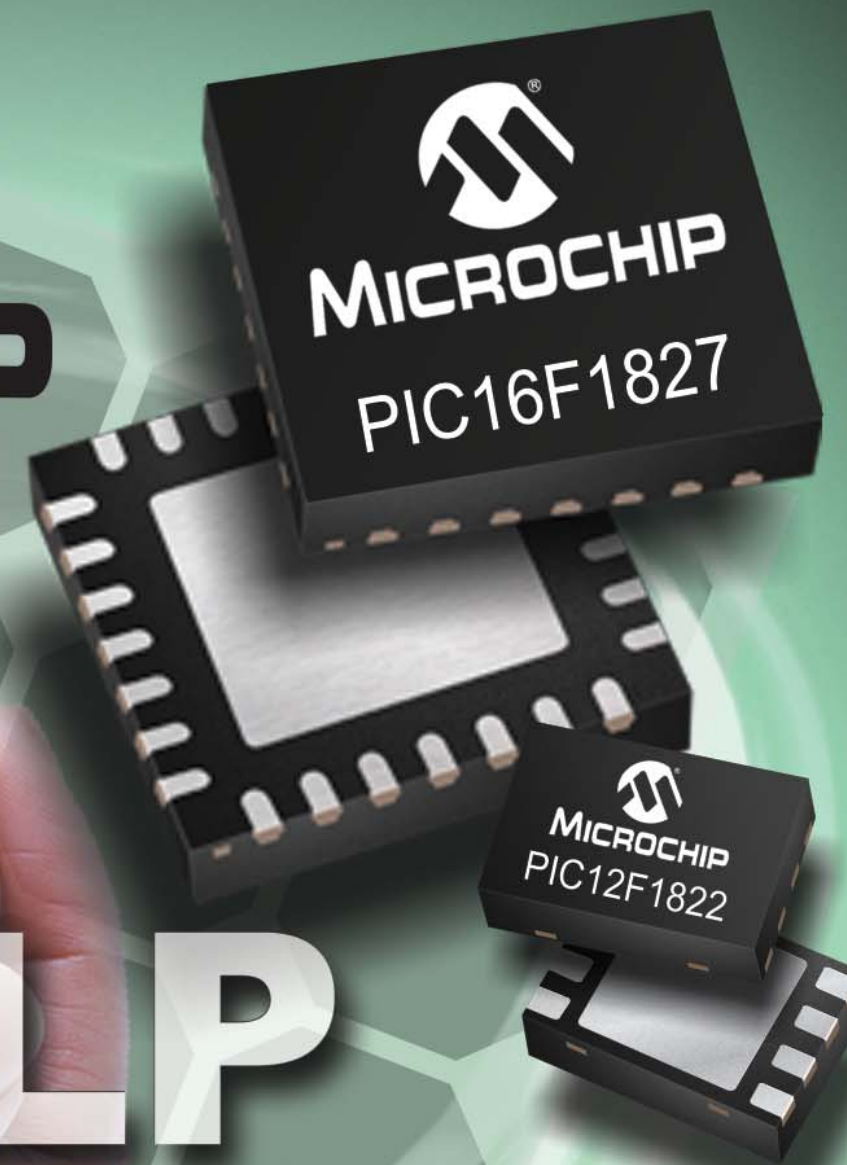
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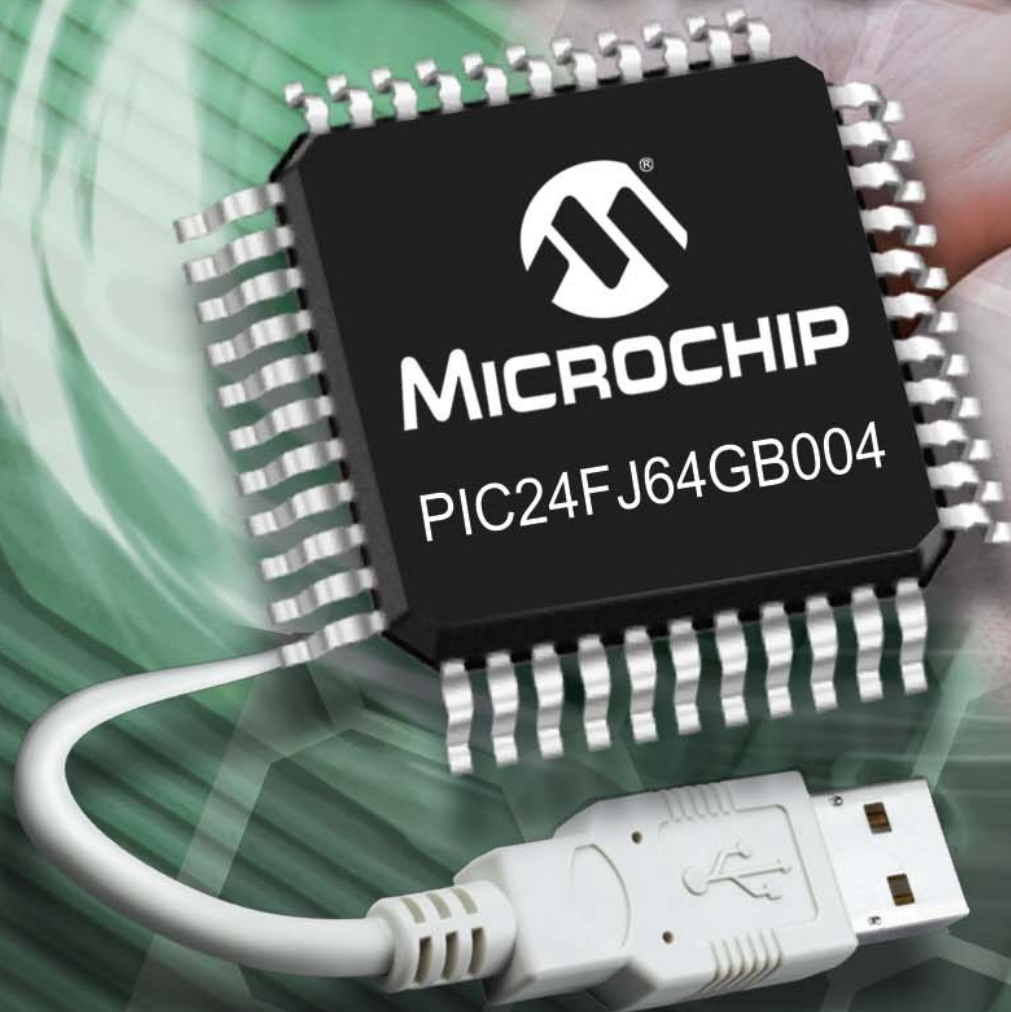




MICROCHIP



nanoWatt XLP Technology



www.microchip.com/XLP

Products with nanoWatt XLP Technology offer the industry's lowest currents for Run and Sleep, where extreme low power applications spend 90-99% of their time.



Looking Beyond Low Power MCUs

Microchip has introduced nanoWatt XLP eXtreme Low Power Technology to address the needs of your next product. Benefits include:

- Sleep currents below 20 nA
- Brown-out Reset down to 45 nA
- Watch-dog Timer down to 220 nA
- Real-time Clock/Calendar down to 470 nA
- Run currents down to 50 µA/MHz
- Full analog and self-write capability down to 1.8V

Low Power Peripheral Integration

Today's low power products require integrated advanced peripherals. nanoWatt XLP MCUs are available with:

- USB Connectivity
- LCD Controllers
- Hardware RTCC
- mTouch™ Capacitive Touch Sensing

Example XLP PIC® MCUs

Device	Flash Memory (KB)	Pins	Sleep (nA)	WDT* (nA)	RTC* (nA)	1 MHz Run (µA)
PIC16LF182X <small>CAP SENSE</small>	3.5-7	8-28	20	300	600	50
PIC16LF72X <small>CAP SENSE</small>	3.5-14	28/44	20	500	600	110
PIC16LF193X <small>CAP SENSE LCD</small>	7-28	28/44	60	500	600	150
PIC18LF1XK50 <small>CAP SENSE USB</small>	8-16	20	24	450	790	170
PIC18LF14K22 <small>CAP SENSE</small>	8-16	20	34	460	650	150
PIC18LF4XK22 <small>CAP SENSE</small>	8-64	28/44	50	600	500	250
PIC18F46J11 <small>CAP SENSE</small>	16-64	28/44	13	813	813	272
PIC18F46J50 <small>CAP SENSE USB</small>	16-64	28/44	13	813	813	272
PIC18F87K90 <small>CAP SENSE LCD</small>	32-128	64/80	25	350	720	181
PIC24F04KA201 <small>CAP SENSE</small>	4	14/20	20	370	470	195
PIC24F16KA102 <small>CAP SENSE</small>	8-16	20/28	20	420	520	195
PIC24FJ64GB004 <small>CAP SENSE USB</small>	32-64	28/44	20	220	520	250

*Base sleep current included in WDT and/or RTC numbers. Typical I/O pin leakage current ±5 nA. All numbers are typical values at minimum V_{DD}, taken from the data sheet.

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75 PRODUCTS

Example Applications

Battery

- Consumer
- Utility Metering
- Asset Tracking
- Electronic Locks
- Portable Medical
- Smoke/CO₂ Detectors
- Irrigation Systems
- Security Systems/Sensors
- Remote Keyless Entry

Green Initiatives

- Compliance with Regulations
- Appliances
- Home Electronics

Energy Harvesting

- Wireless Switches
- Battery-free Sensors
- Wireless Sensor Networks
- RF Powered Sensors

XLP 16-bit Development Board (DM240311)

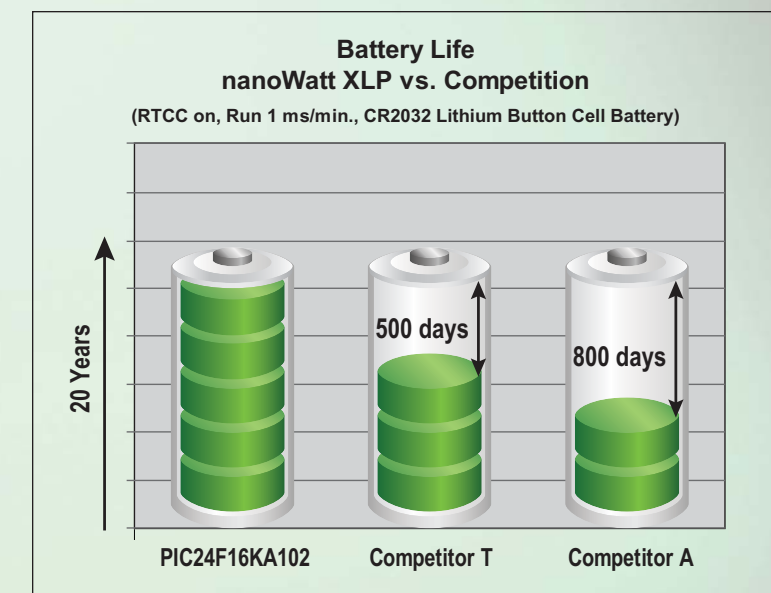
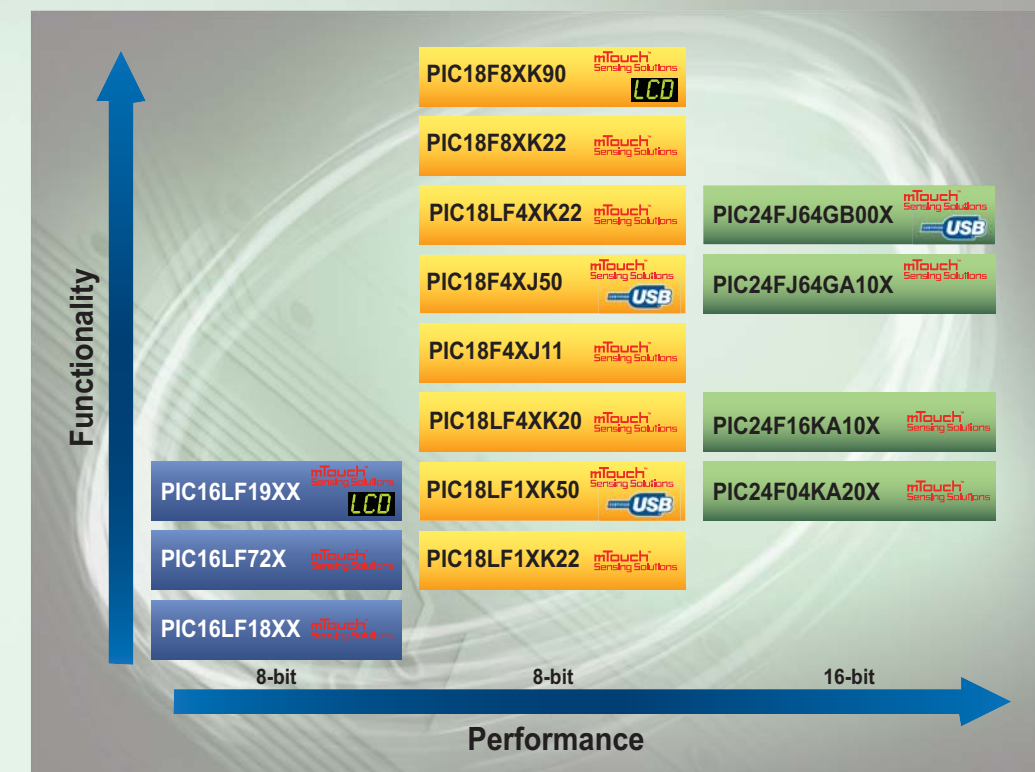


Designed with eXtreme Low Power in mind, this board enables development with the PIC24F family of 16-bit PIC XLP MCUs.

- Supports 20-/28-pin devices
- Flexible power options
 - CR2032 coin cell
 - 2xAAA lithium** or alkaline cells
 - Energy harvesting: solar, vibration, RF, etc.
 - External/USB
- Easy Prototyping:
 - PICtail™ connector supports RF Modules, SD/MMC storage, speech playback modules and more
 - LEDs, capacitive and mechanical buttons, resistive pot, temperature sensor and EEPROM
 - Generic prototyping area
 - USB communication to PC

** Microchip recommends Energizer® Ultimate Lithium AAA Batteries for the XLP 16-bit Development Board.

Broad Low-Power Product Offering



www.microchip.com/XLP