

CYPRESS

WIRELESSUSB™ NX

2.4 GHz TRANSCEIVER WITH 2 MEGA BITS PER SECOND
DATA RATE AND ULTRA-LOW POWER CONSUMPTION

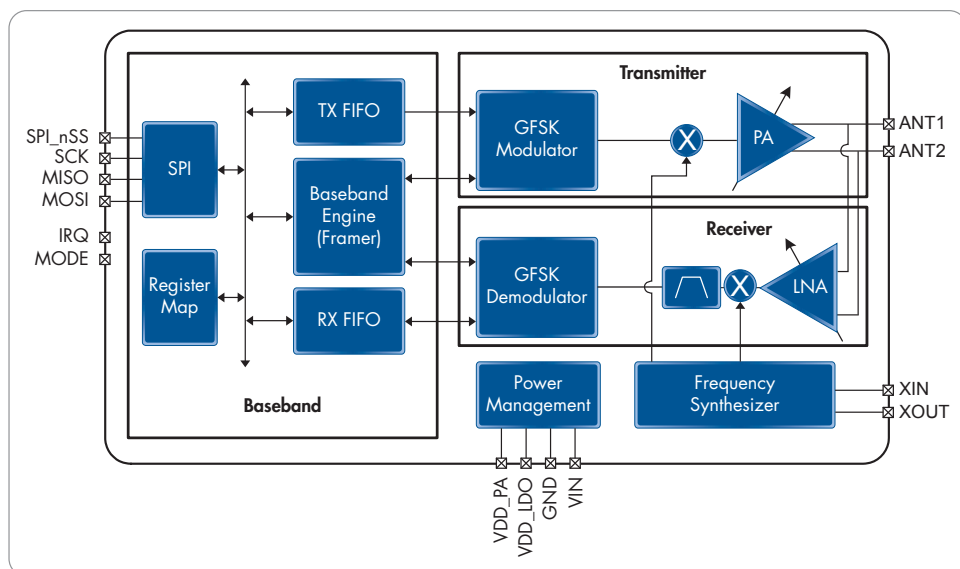


LOW POWER
12mA ACTIVE CURRENT | 900nA SLEEP CURRENT
HIGH SPEED
2 Mbps

PRODUCT OVERVIEW

INTRODUCTION

WirelessUSB™ NX (WUSB-NX) is Cypress's fourth generation, proprietary RF transceiver which works in the unlicensed 2.4-GHz Industrial, Medical and Scientific (ISM) band. It supports data rates of up to 2 Mbps and offers ultra-low power consumption. WUSB-NX implements Gaussian Frequency Shift Keying (GFSK) and can transmit up to 32-byte payloads.



WUSB-NX Block Diagram

APPLICATIONS

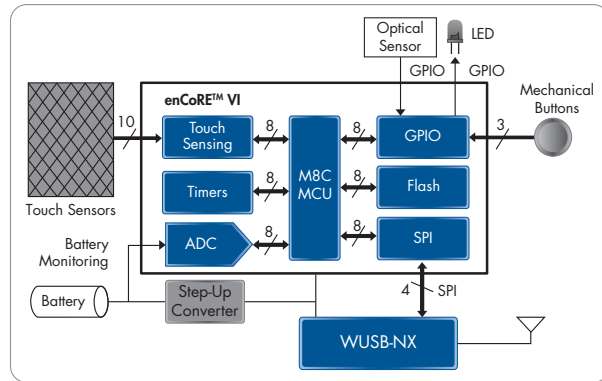
Combined with Cypress's companion products, WUSB-NX offers a complete system solution for battery-powered wireless applications.

See the next page for examples of battery-powered wireless applications designed using WUSB-NX.

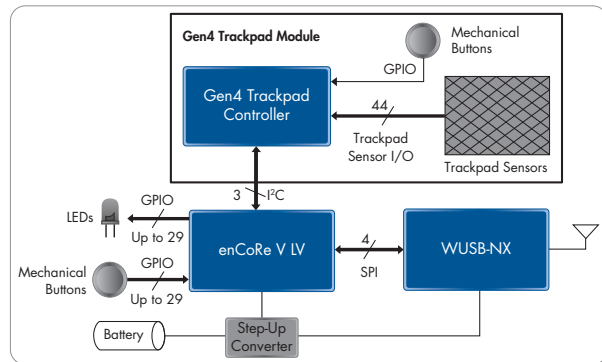
FEATURES

- Low current consumption:
 - Sleep current: 900 nA
 - Idle current: 26 μ A
 - Transmit current: 12 mA
 - Receive current: 15 mA
- Programmable data rates: 2 Mbps, 250 Kbps
- Maximum link budget: +97 dB for 30-meter range
 - Max transmit power: +4 dBm
 - Min receive sensitivity: -93 dBm at 250 Kbps
- Received Signal Strength Indicator (RSSI)
 - 5-bit RSSI for channel noise
 - 4-bit RSSI for signal strength
- MCU interface: SPI slave
- Package: 24-QFN (4 x 4 x 0.55 mm)

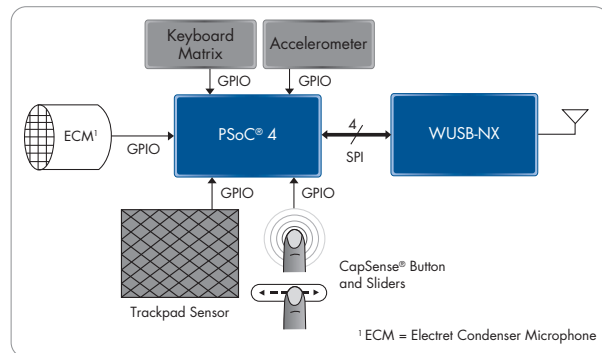




Wireless Touch Mouse Using WUSB-NX + enCoRe VI



Wireless Trackpad Using WUSB-NX + enCoRe V + Gen4 Trackpad Module



RF Remote Control with Touch Sensing and Voice Support Using WUSB-NX + PSoc 4

Part Number	MCU Interface	Data Rate (Mbps)	Operating Voltage (V)	Operating Temp. (°C)	Package
CYRF9935-24LQXC	SPI Slave	2	1.9–3.6	0-70	24-QFN

GET STARTED NOW

Visit www.cypress.com/WUSB-NX or email us at wusbnx@cypress.com for more information

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