

Industry-low current consumption extends battery life

Sub-GHz (160-510MHz) Wireless Communication LSIs

KX022 / KX023



Features

- Receiving current consumption limited to 5.9mA - ideal for battery operation
- High-speed signal check function results in an industry-leading detection time of only 0.8ms
- Package / pin / register compatibility with the ML7406 enables shared use of hardware and software design resources

Applications

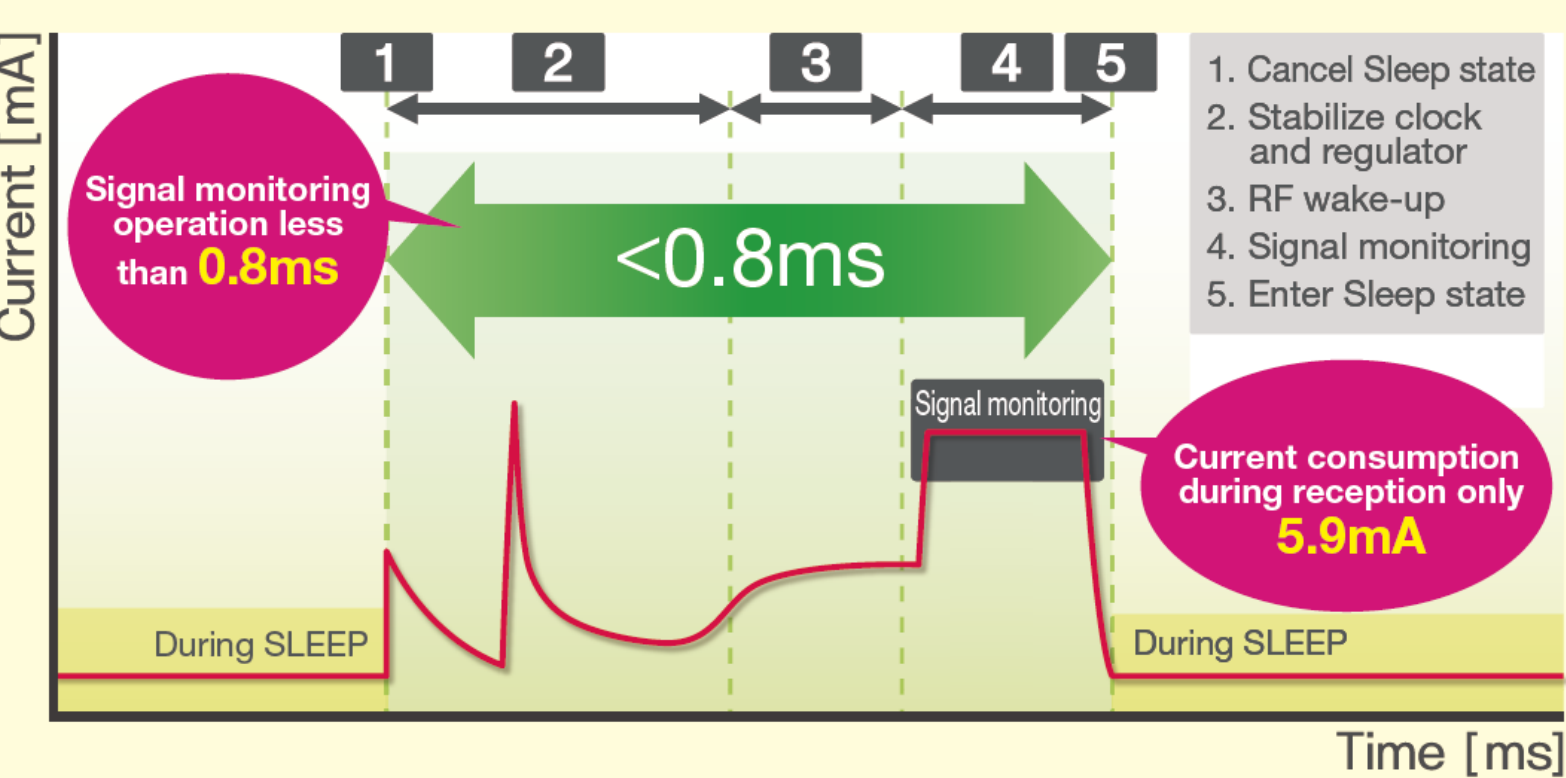
- Security systems (ML7344J)
- Telemetry, remote control (ML7344J)
- Smart meters in China (ML7344C)

Specifications

	ML7344J	ML7344C
Frequency Setting Range	315-450MHz	470-510MHz
Supply Voltage	1.8V - 3.6V (Depends on TX power)	
Data Rate	1200bps - 15kbps	
Receiver Sensitivity (4800bps BER 0.1%)	-115dBm	-116dBm
RX Bandwidth	25kHz	
TX Current	100mW	—
	20mW	28mA
	10mW	22mA
RX Current	5.9mA (TCXO)	
Sleep Current (Built-In Timer ON)	2.14μA	
Deep Sleep Current	0.1μA	

Current Consumption Profile

Signal monitoring current consumption reduced by more than 10x (5μA·s)



Block Diagram

160-510MHz
Up to **20dBm** output (ML7344C)
Up to **13dBm** output (ML7344J)
GFSK 1200bps to **15 kbps**

