

# Lowest Power Smallest Size Custom Frequency



SiTime's SiT8021 is the industry's lowest power (60 µA), smallest (1.5 mm x 0.8 mm ) MHz oscillator supporting frequencies from 1 to 26 MHz. The combination of ultra-low power, ultra-small package and a wide frequency range makes it an ideal replacement for quartz oscillators or resonators in mobile, wearable and IoT applications.

### Benefits

- Extend battery life
- Save board space
- Reduce BOM

### Applications

- Mobile Phones
- Tablets
- Fitness bands
- Health and medical monitoring
- Wearables
- Portable audio
- Sport video cams
- Active stylus
- IoT devices
- Environmental sensors
- Hearing aids

### Features

- Ultra-low power consumption of 60 µA at 3.072 MHz
- Ultra-small 1.5 mm x 0.8 mm package
- Any frequency between 1 and 26 MHz
- Operating temperature from -40°C to 85°C
- ±100 PPM frequency stability over temperature
- 1.8V supply voltage
- Configurable output drive strength
  - To drive multiple loads
  - To reduce EMI
- Ultra-light weight of 1.28 mg
- Shock and drop resistance 10 kg
- Ultra-fast lead time (3-5 weeks)



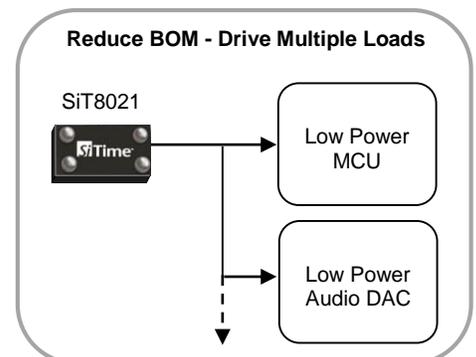
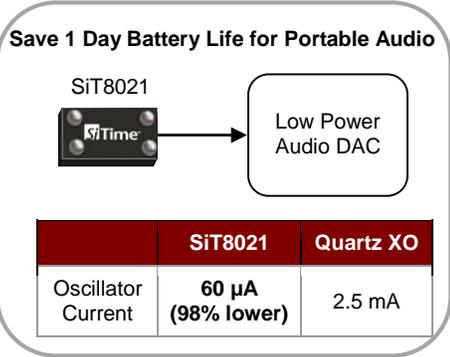
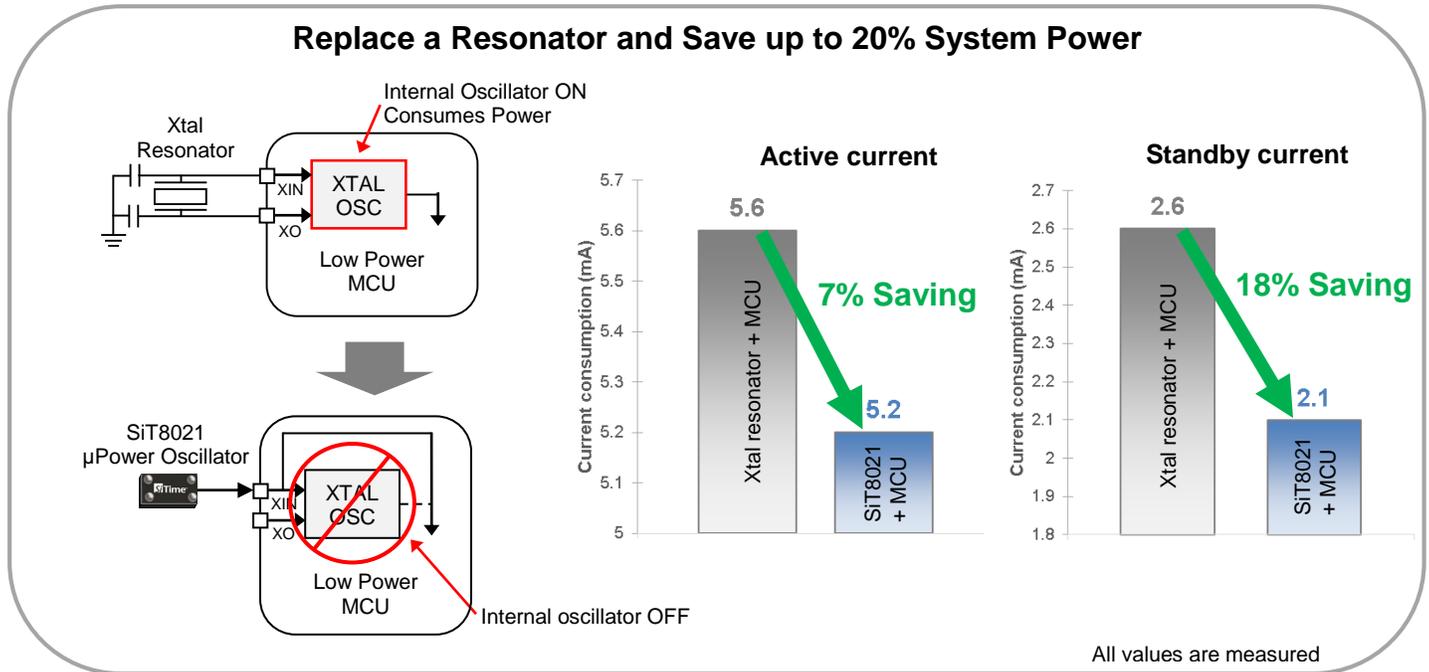
INSTANT  
SAMPLES



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SOLUTIONS



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WARRANTY



Device	Frequency	Temp. Range (°C)	Stability (PPM)	Package Size (mm)	Supply Voltage (V)
<b>MHz µPower Oscillator</b>					
<b>SiT8021</b>	1 to 26 MHz	-40 to 85	±100 (over temp.)	1.5 x 0.8	1.8
<b>32 kHz µPower Oscillators</b>					
<b>SiT1532</b>	32.768 kHz	-10 to 70, -40 to 85	10, 20 (room), 75, 100 (over temp.)	1.5 x 0.8	1.2 to 3.63
<b>SiT1533</b>	32.768 kHz			2.0 x 1.2	1.2 to 3.63
<b>SiT1534</b>	1 Hz to 32.768 kHz			1.5 x 0.8 or 2.0 x 1.2	1.2 to 3.63
<b>SiT1552 TXCO</b>	32.768 kHz	0 to 70, -40 to 85	±5, ±10, ±20 (over temp.)	1.5 x 0.8	1.5 to 3.63

Datasheet: <http://www.sitime.com/products/upower-oscillators>

Order samples: <http://www.sitime.com/support/request-samples>