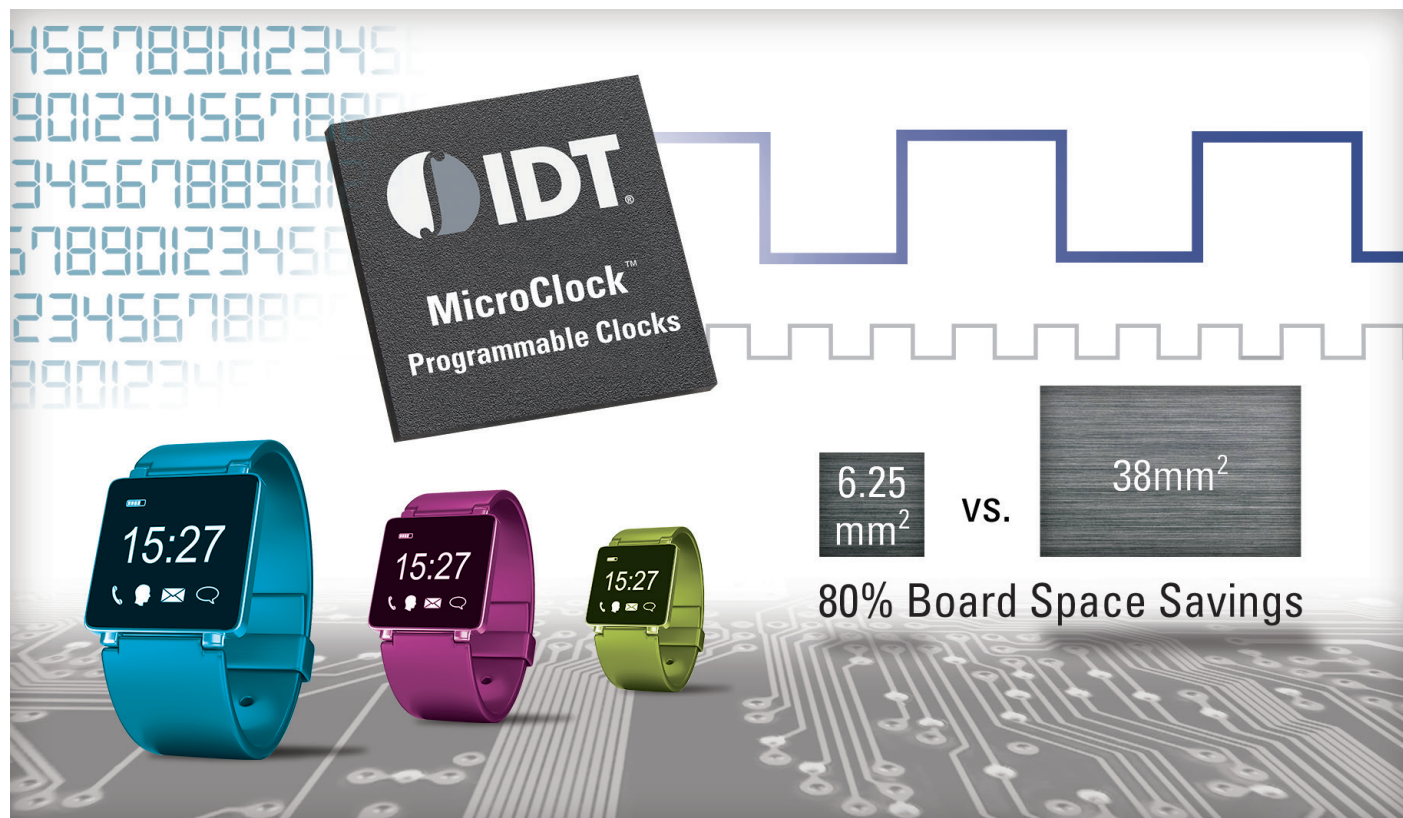


5X2503/5L2503 MicroClock™ Programmable Clocks



FEATURES AND BENEFITS

- Proactive Power Saving (PPS)
 - Energy savings with less design effort—actively switches modes according to the status of the downstream clocked component
- Dedicated OE pin for each output
 - Minimizes power consumption based on performance requirements
- Dynamic Frequency Control (DFC)
 - Allows fast changes between pre-selected frequencies for TDM or FSK interfaces
- Spread Spectrum technology attenuates system EMI
- Low Power
 - Replaces large 32.768kHz crystal with smaller, more reliable 32.768kHz clock
- Programmability
 - Single device adapts to clock requirements of various platforms, facilitating design re-use
- Small package with integrated crystal reduces board space and lowers BOM cost

The 5X2503 and 5L2503 MicroClock™ programmable clock generators offer the low power and small form factor demanded by compact applications in the consumer market. The devices come equipped with innovative features and low power DCO to support battery powered devices. The embedded crystal option offers board space savings of up to 80% over conventional crystal solutions.

An internal one-time-programmable memory allows the user to store a configuration in the device, eliminating the need for programming after power up. This feature also provides flexibility on diversified platforms.

Part Number	5X2503	5L2503
Performance	< 100ps cycle-to-cycle jitter < 2μA on 32.768kHz clock	
Features	DFC, PPS, 32.768kHz DCO	
Output types	3 LVCMOS Outputs up to 125Mhz	
Inputs	None (internal crystal)	8 to 48 MHz Crystal 1 to 125 MHz CLOCKIN
Package	2.5 x 2.5 mm 12-DFN	