



Ultra Low Power Disciplined Oscillator – DTQ-100A from Taitien

Description



Product Highlight:

Taitien Electronics' [DTQ-100A](#) is an ultra-low power disciplined oscillator offering atomic clock-level precision with just 65mW of power consumption. This makes it perfect for power-constrained environments like underwater sensing and seismology.

Achieving $< \pm 10^{-12}$ frequency accuracy and 1ns RMS phase accuracy, it ensures reliable synchronization for long-term deployments. The [DTQ-100A](#) integrates 1PPS synchronization for easy deployment and reduces system complexity.

Offering a cost-effective alternative to CSAC with similar precision, it's ideal for large-scale applications such as Ocean Bottom Nodes (OBN) and smart grids. Its compact size (39 x 34 x 14 mm) and RS232 interface enable seamless integration, improving system efficiency and lowering maintenance costs.

Trust Taitien's [DTQ-100A](#) for precise, low-cost synchronization in demanding environments.

Overview:

- Package Size: 39 x 34 x 14 mm
- Freq. : 16.384 MHz
- Product Shape: DIP
- Supply Voltage: 3.3 V
- Output level: 2.6V CMOS

View the DTQ-100A Ultra-Low Power Oscillator

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