

1 Introduction

The Montage Low-Power Programmable Clock Generator series comprises six chip variants - M88TG0101A/B, M88TG0102A/B and M88TG0104A/B - and is supported by three evaluation boards (EVBs), one for each of the three base device types. Each EVB supports both the A and B variants. By connecting an EVB via USB to a PC running the Montage Timing Clock Tool, users can configure and program the chip to generate a wide range of frequency combinations. Furthermore, all EVBs support LP-HCSL, HCSL, LVCMOS, and LVDS output modes, ensuring broad compatibility with various application interfaces.

For more detailed product specifications, please refer to their respective *Product Brief* on Montage website, or contact Montage representatives to request the corresponding *Data Sheets*.

2 Specification

Feature	Specification		
Card Model	M88TG0101A/B EVB	M88TG0102A/B EVB	M88TG0104A/B EVB
Card Physical Dimension	155mm x 120mm	155mm x 120mm	155mm x 120mm
Connectors	USB Micro-B, SMA	USB Micro-B, SMA	USB Micro-B, SMA
LED Indicators	5V USB Power, 1.8V/2.5V/3.3V Power	5V USB Power, 1.8V/2.5V/3.3V Power	5V USB Power, 1.8V/2.5V/3.3V Power
Output Types	LP-HCSL, HCSL, LVDS, LVCMOS	LP-HCSL, HCSL, LVDS, LVCMOS	LP-HCSL, HCSL, LVDS, LVCMOS
Operating Mode	OTP Mode, I ² C Mode, Pin Mode	OTP Mode, I ² C Mode, Pin Mode	OTP Mode, I ² C Mode, Pin Mode
Companion GUI	Timing Clock Tool	Timing Clock Tool	Timing Clock Tool

3 Applications

The EVBs enable rapid configuration of M88TG0101A/B, M88TG0102A/B and M88TG0104A/B via USB-connected software, allowing them to generate various frequencies and operate in multiple output interface modes.

Figure 1. M88TG0101A/B EVB (Top View)

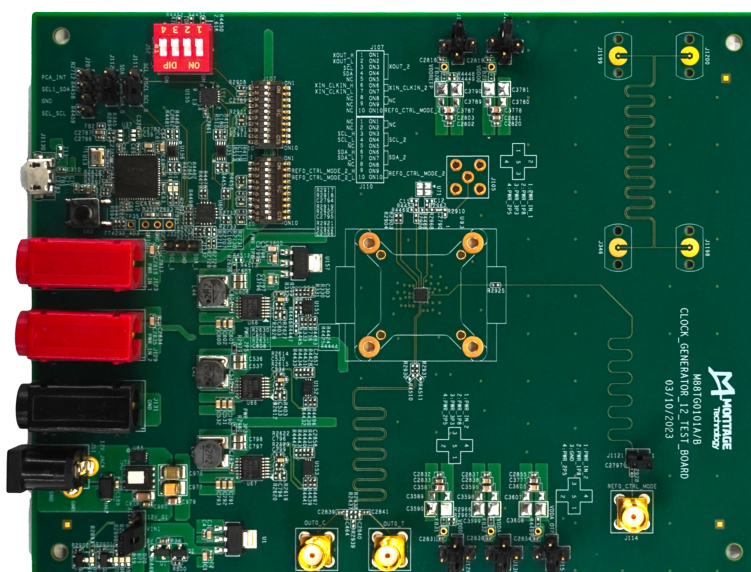


Figure 2. M88TG0102A/B EVB (Top View)

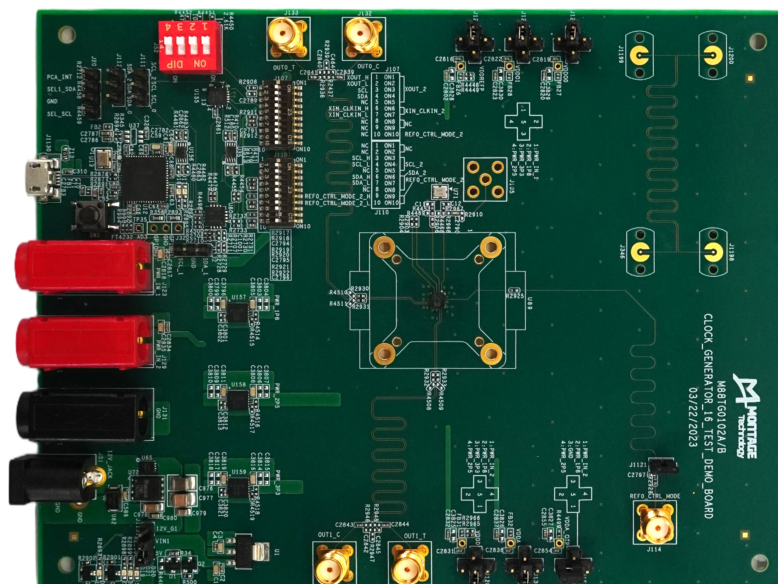


Figure 3. M88TG0104A/B EVB (Top View)

