

Feature	DT9837	DT9837A
Analog Input		
Channels	4 SE	4 SE
Resolution	24-Bit	24-Bit
Programmable per Channel	AC/DC, IEPE on/off, Gain1/10	AC/DC, IEPE on/off, Gain1/10
Max. Sampling Rate per Channel	52.7 kHz	52.7 kHz
AC Coupling (-3dB)	0.5 Hz	0.1 Hz
Tachometer		
Tachometer Input	1 ($\pm 30V$ / max. 380 kHz)	1 ($\pm 30V$ / max. 1 MHz)
Time Resolution	12 MHz	12 / 48 MHz
Tacho Modes	1	2 + GATE
Synchronized with Analog Input	Yes	Yes
Analog Output		
Channels	1	1
Resolution	24-Bit	24-Bit
Max. Sampling Rate	fixed, 46.875 kHz	up to 52.7 kHz
Output current	$\pm 1mA$ max.	$\pm 3mA$ max.
Streaming Mode	No	Yes
Buffered Mode	Yes	Yes
Single Value	Yes	Yes
Synchronized with Analog Input	No	Yes
Trigger		
Internal Software Trigger	Yes	Yes
External Digital TTL Trigger	Yes ($\pm 30V$)	Yes ($\pm 30V$)
Analog Treshold Trigger	Yes, fixed at 2V	Yes, programmable
Other Features		
Multiple Module Synchronization	No	Yes