

Clocks/Timers/Counters

Available with and without on-board display drivers. Harris' broad range of Timer/Counters circuits serves a wide variety of control functions. For separate Display Driver circuits, see separate section.

Timer/Counters with Display Drivers

Type	Typical Applications and Comments	Display			Functions															Max Count Speed (MHz)	Evaluation Kit Available	
		LED	LCD	VF	Unit Count			Universal Counters			MUX BCD Outputs	Display Latch	Display Blanking	Count Enable	Leading Zero Blanking	Preset Count	Comparison Register	Equal and Zero Output				
		Common Anode, Non-MUX	Common Cathode, MUX	Common Anode, MUX	Direct Drive, Non-MUX	Non-MUX	Up/Down	Up Only	Decade	Modulo 60 (Hr/Min/Sec)									Frequency			Period
4 DIGIT																						
ICM7217	Industrial control: preset predetermining counters, sequencers, on off delay timers, batch counters. Presets and loads compare register from thumbwheel switches.			•			•	•	■				•	•	•		•	•	•	•	2	
ICM7217A			•				•	•	■				•	•	•		•	•	•	•	2	
ICM7217B				•			•		•				•	•	•		•	•	•	•	2	
ICM7217C			•				•		•				•	•	•		•	•	•	•	2	
4½ DIGIT																						
ICM7224	10µA operating current. Can be cascaded for more digits.				•			•	•	■				•		•	•				15	•
ICM7225	Has brightness adjustment. 10µA current with display blanked, cascadable.	•						•	•	■				•	•	•	•				15	•
5½ DIGIT																						
ICM7249	Event timer counter, hour meter. 14 programmable modes. Selectable input filtering				•			•	•				•				•					
7 DIGIT																						
ICM7208	Use with ICM7207A for a 7-digit frequency counter.		•					•	•	■				•	•	•	•				2.5	
8 DIGIT																						
ICM7216A	Universal frequency counter with display drivers. 4 internal gate times, auto decimal point, leading zero blanking, overflow indication. Display off, hold, and reset inputs			•				•	•	•	•	•	•	•	•	•					10	
ICM7216B			•					•	•	•	•	•	•	•	•	•					10	
ICM7216C				•				•	•	•	•	•	•	•	•	•					10	
ICM7216D			•					•	•	•	•	•	•	•	•	•					10	
ICM7226A	Same as ICM7216 plus period and time interval averaging. BDC outputs, µP PIA compatible			•				•	•	•	•	•	•	•	•	•					10	•
ICM7226B			•					•	•	•	•	•	•	•	•	•					10	

■ These counters will measure frequency when used with the ICM7207 (0.01 and 0.1 second timebase) or the ICM7207A (0.1 and 1 second timebase)