

Specifications

This section begins with a general description of the traits of the TDS 500B, 600B and 700A Digitizing Oscilloscopes. Three sections follow, one for each of three classes of traits: *nominal traits*, *warranted characteristics*, and *typical characteristics*.

Product Description

The TDS 500B, 600B and 700A Digitizing Oscilloscopes are portable, four-channel instruments suitable for use in a variety of test and measurement applications and systems. Table 2-1 lists key features.

Table 2-1: Key Features of the TDS 500B, 600B and 700A Oscilloscopes

Feature	TDS 600B	TDS 700A
Digitizing rate, maximum	TDS 684B: 5 GS/s on ea. of 4 ch TDS 680B: 5 GS/s on ea. of 2 ch TDS 644B: 2.5 GS/s on ea. of 4 ch TDS 620B: 2.5 GS/s on ea. of 2 ch simultaneously	TDS 784A: 4 GS/s TDS 540B, 744A: 2 GS/s TDS 520B, 724A: 1 GS/s Opt. 1G, TDS 540B, 744A: 1 GS/s
Analog bandwidth	1 GHz on TDS 680B, 684B, and 784A 500 MHz on TDS 520B, 540B, 620B, 644B, 724A and 744A	
Channels	Four, each with 8-bit resolution	
Record lengths, maximum	15,000 samples	50,000 samples (500,000 with option 1M)
Acquisition modes	Sample, envelope, peak detect and average	Sample, envelope, average, high-resolution, and peak-detect
Trigger modes	Include: edge, logic, and pulse. Video trigger, with option 05, modes include: NTSC, SECAM, PAL, HDTV, and FlexFormat.	
Display	TDS 520B, 540B, 620B, 680B: Monochrome TDS 644B, 684B, 724A, 744A, 784A: Color	
Storage	1.44 Mbyte, 3.5 inch, DOS 3.3-or-later floppy disk (optional on TDS 520B, 540B, 620B & 680B). NVRAM storage for saving waveforms, hardcopies, and setups	
I/O	Full GPIB programmability. Hardcopy output: using GPIB, RS-232, or Centronics ports	