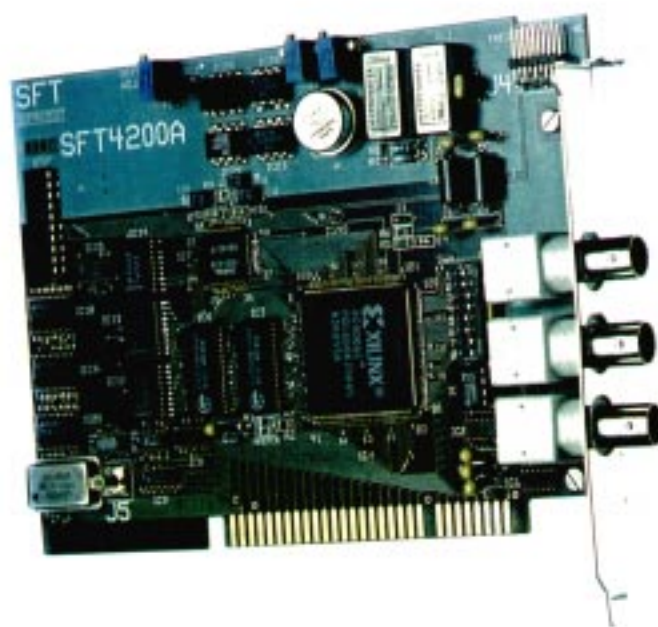


100MHz WAVEFORM DIGITIZER



The **SFT 4200** is an **ISA COMPATIBLE** board offering high resolution waveform capture at high speed. With 8 bits of resolution and a signal bandwidth from DC to 20 Mhz, the **SFT 4200** is useful for a wide range of applications that require signal capture in the multi-megahertz frequency range.

An extensive C language library, **DLL** for **Windows 3.1** and **Windows 95** are provided with the board to ease software development.

FEATURES

- * PC AT compatible board (ISA BUS)
- * DC - 20 Mhz bandwidth
- * 8 bits resolution flash converter
- * 256 Kbytes memory on board
- * All functions software controllable
- * Numerous trigger modes
- * Input : $\pm 1V$
- * Each board comes complete with a real time digital oscilloscope program

APPLICATIONS

- * Ultrasounds
 - Medical diagnostics
 - Non Destructive Testing
- * Communications
- * Radar, Sonar
- * High speed waveform capture
- * Laser physics
- * High energy fields
- * Pulsed echo testing
- * Transient recorder

SFT4200 - SPECIFICATIONS

INPUT SIGNALS :

- Analog signal
- External trigger

OUTPUT SIGNAL :

- Trigger output

CONNECTORS :

- 3 BNC
- HE10 connector for internal connection with SOFRATEST boards

ANALOG INPUTS :

- Full scale dynamic input : -1.0V to 1.0V
- DC offset : ± 2 V (software)
- Impedance : 50 Ω or 1 M Ω (software)
- Bandwidth : 20MHz at -3 dB
- Coupling : AC or DC (software)

TRIGGER :

- Active on rising edge of software generated signal
- Active on rising or falling edge of an external TTL signal (+/- by software)
- Delay trigger mode - Delay from 200ns to 6.5ms in 100ns steps (software)

CLOCK :

- Clock oscillator 100MHz
- Sampling rate Max.100MHz single shot
- External clock 100MHz (internal SMB connector)
- Lower sampling rate : 50MHz

A/D CONVERSION :

- 8 bits conversion
- Reference voltage 2V (1 LSB = 7.812mv)

MEMORY BUFFER :

- 256Kb fully addressable
- Software control of active memory size : 256Kb - 128Kb - 64Kb - 32Kb
16Kb - 8Kb - 4Kb - 2Kb
- Memory configuration is set by software (default &HD0000)

SPECIAL FEATURES :

- IRQ 3 - 4 - 5 - 6 - 7 (selectable by software)
- I/O address (dipswitch selectable) : multi board/channel applications
- RF input & trigger input via internal flat cable in addition to BNC inputs

SIZE :

- 1/2 length card ISA BUS (16 bits)

ABSOLUTE MAXIMUM RATING :

- Analog inputs : 2 volts peak to peak
- Trigger input : TTL
- Trigger output : TTL
- Clock input : TTL (100MHz)
- Ambient temperature : 0 to 40°C

SOFTWARES :

- AP4200 : Demonstration for DLL application
- WINUS (option) : Dedicated software for ultrasonics testing with SOFRATEST pulser - receiver board
- MICROSOFT C library (option) : V 5.1 **CE**
- MICROSOFT DLL library (option) : Windows 3.1 & Windows 95

SOFRATEST RESERVES THE RIGHT TO REVISE THESE SPECIFICATIONS WITHOUT NOTICE