SGS-THOMSON MICROELECTRONICS

ST626x-KIT

STARTER KIT FOR ST626x MCU FAMILY

HARDWARE FEATURES

- Immediate evaluation of ST62E65 with demonstration examples
- Program debugging by connection of an application environment to the board
- On board programming of ST62E60, ST62T60, ST62E65 and ST62T65
- In-circuit programming of ST62E6x and ST62T6x through the Starter Kit

SOFTWARE FEATURES

- Software simulator including I/O read/write
- Assembler, linker, debugger
- EPROM/OTP programming utilities
- Application examples

1 DESCRIPTION

The ST626x Starter Kit can be used for evaluation, simulation and emulation purposes. First, it can be used to demonstrate the capabilities of the ST6265. It is only necessary to connect the supply to the board and to load the demonstration software provided with the Kit into the ST62E65 sample.
The same board can be used as a hardware interface to the software simulator when connected to the PC. Analog or digital values from the ST626x I/O pins can also be loaded directly to the simulator.
Once the program is successfully simulated, it can be loaded in a ST62E65 or ST62E60 by using the on-board programmer (DIL packaged devices only). The application environment can be connected to the Starter Kit via the I/O connector to perform a full evaluation of the user application.
In addition, an in-circuit programming facility is provided with the Kit to enable programming, via the Starter Kit board, of any ST62E6x (EPROM) or ST62T6x (OTP) already mounted in the user application board.

Hardware items

The Kit includes 2 samples of ST62E65, 2 samples of ST62E60, an audio transducer, an RS232 interface, a thermistor, a trimmer, a set of LED and buttons, all cables plus a power supply. Pins are available for direct connection to an external user application. The board is connected to the PC via the parallel port.

Software items

The diskette provided with this kit includes an enhanced simulator including I/O read/write, assembler, linker, EPROM/OTP ST6 programming facilities and demonstration examples.

Documentation

A full set of documents is provided with the Kit including the ST626x data book, a Kit guide and the ST62/63 Software Development Tools user manual.

System requirement

The ST626x Starter Kit communicates with a PC-AT compatible Personal Computer equipped with a hard disk and a 5 1/4” diskette drive, 640k of conventional memory, one parallel Centronic compatible port and MS-DOS version 3.10 or higher.

Bulletin Board Systems

Upgrades of Software Tools, example code and documentation are available to Registered users through the SGS-THOMSON Bulletin Board Systems (BBSs). These are accessible by Modem at the following numbers:

- In the USA:

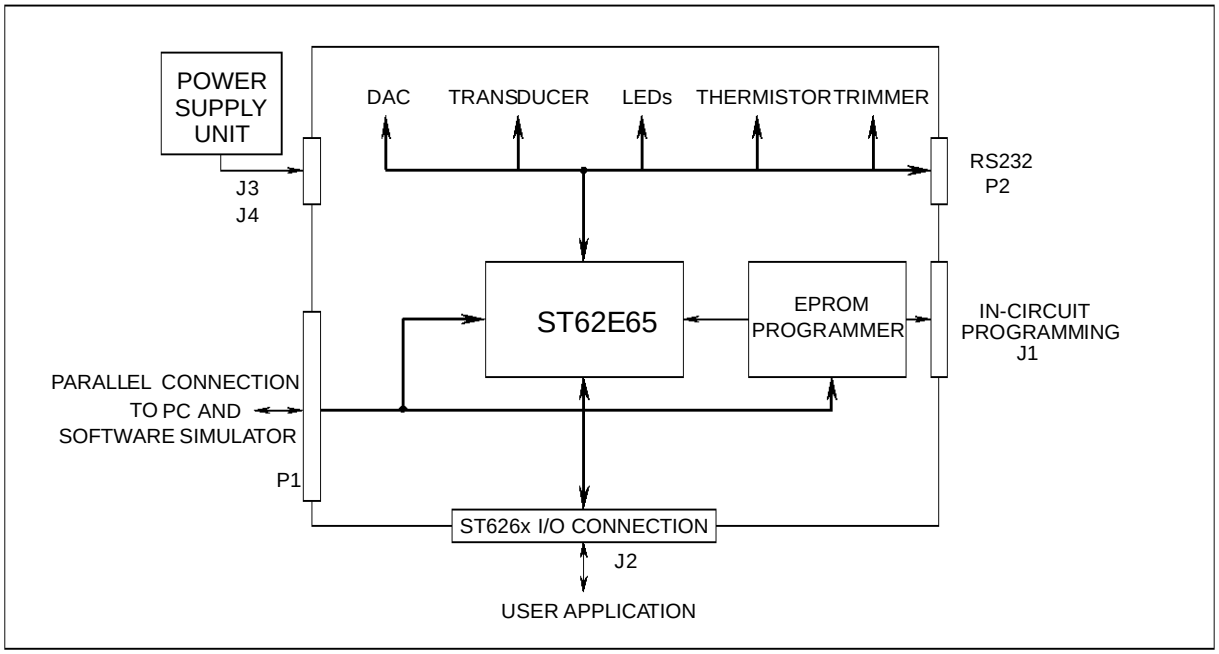
(1) 708 517-1898 2400 baud (V22bis), 8-bits, No Parity, 1 Stop bit (8,N,1)

- In Europe:

Micros Technical Support Hotline (France): (+33) 76 48 99 28
9600 baud (V32) and lower, 8,N,1
Microcontroller Support (France): (+33) 42 29 14 16
9600 baud (V32) and lower, 8,N,1

DESCRIPTION (Continued)

Figure 1. Block Diagram of ST626X Starter Kit



Kit Contents

ST626x STARTER KIT Board:	- Typical application board based on ST6265 MCU - MCU Peripherals evaluation/emulation facilities - ST626x EPROM/EEPROM programming functions - ”In Situ” connector for any ST626x programming - Power supply and PC-AT connection cable
SOFTWARE TOOLS:	- AST6/LST6 ST6 family assembler/linker - SIMST6 simulator software performing dedicated access to the board MCU peripherals - ST626xPG EPROM/EEPROM programming software
ST626x APPLICATION ROUTINES:	- Demonstration programs - Basic subroutines library
ASSOCIATED DOCUMENTS:	- STARTER KIT GUIDE - ST6 SOFTWARE TOOLS MANUAL (DBST6SOFTOST/1) - ST6 PROGRAMMING MANUAL (DBST6ST/3) - ST626x family DATA BOOK (DBST6ST/3)

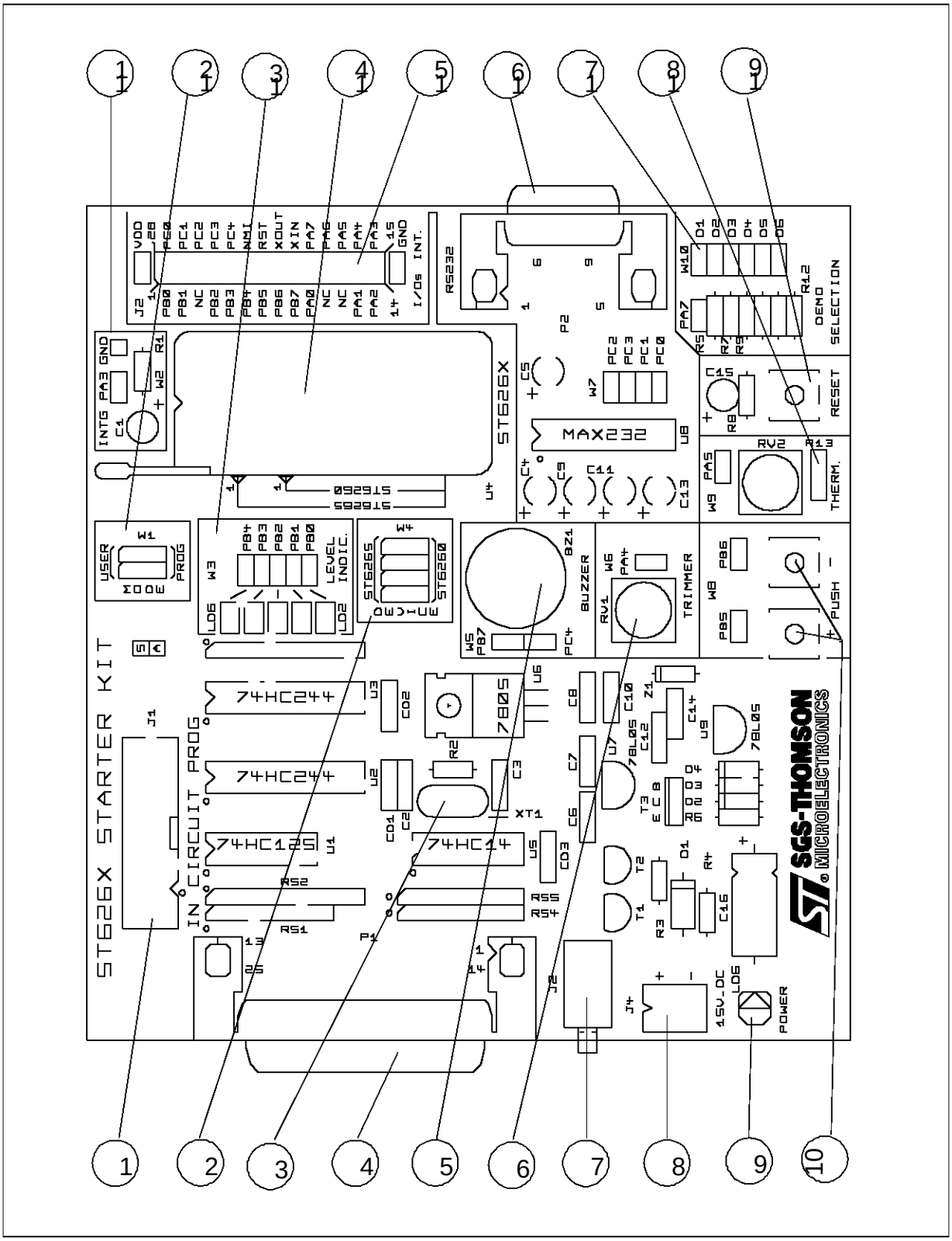
2 HARDWARE DESCRIPTION

2.1 Board overview

1 - IN CIRCUIT programming connector J1
2 - ”ST6260” or ”ST6265” device selection jumpers W4
3 - 8 Mhz crystal oscillator
4 - PC connector P1 (for links to simulator and programming software)
5 - Audio Transducer circuit (Buzzer) including jumpers W5
6 - 10 Kohm trimmer and jumpers W6
7 - Power supply JACK connector J3
8 - Power supply connector J4
9 - Power supply LED indicator
10 - ”+” and ”-” pushbuttons and jumpers W8
11 - DAC integrator circuit including jumpers W2
12 - ”Programming” or ”User” operating mode selection jumpers W1
13 - 5 LED Level indicator including jumpers W3
14 - DIL 20-28 MCU socket
15 - User’s I/O interface connector J2
16 - RS232 interface circuit and connector including jumpers W7
17 - Demonstration routine selector (jumpers W10)
18 - Thermistor circuit including jumpers W9
19 - RESET pushbuttons and jumpers W8

Note: DAC is a Digital to Analog Conversion circuit.

Figure 2. Board Overview



ORDERING INFORMATION TABLE

Sales Type	Description
ST6260-KIT/220	Complete kit for operation from 220 Vac mains
ST6260-KIT/110	Complete kit for operation from 110 Vac mains
ST6260-KIT/UK	Complete kit for operation in United Kingdom