



STEVAL-IFS012V1

Multi-device temperature sensor demonstration kit
based on the ST72651AR6, STTS75 and STLM20

Data brief

Features

- Graphic LCD (122 x 32)
- 3 V button battery for RTC
- Power jack for external power supply
- USB jacket for USB connection
- Two power supply modes available:
 - external power mode
 - USB-powered mode
- RoHS compliant

Description

The STEVAL-IFS012V1 multi-device temperature sensor kit includes an ST72F651AR6 microcontroller-based motherboard, designed to be connected with any of several compatible temperature sensor daughterboards. The purpose of the complete system (motherboard and daughterboard) is to provide an evaluation platform for the ST72F651AR6 MCU and ST's family of digital and analog temperature sensors.

The STEVAL-IFS012V1 system can operate in two modes: standalone (external power) and full-featured GUI (USB-powered) mode. When the board is connected through a USB cable, it is recognized by the PC as a mass storage device.

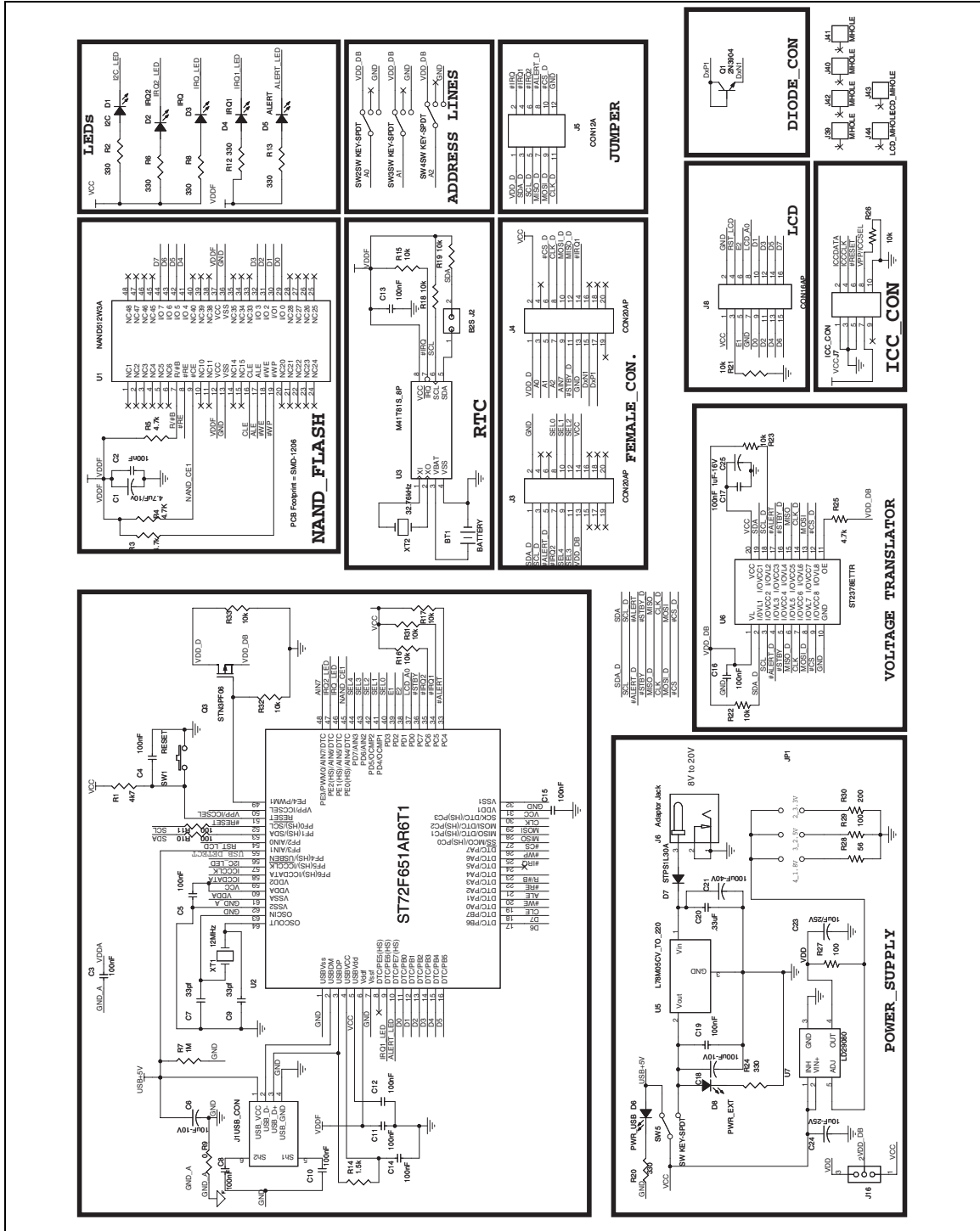
A total of 6 temperature sensors (5 digital and 1 analog) are supported by the system, each mounted on a separate, individually-orderable daughterboard. The temperature sensors supported are the STLM20, STTS424E02, STTS75, STDS75, STLM75, and STCN75.

Two daughterboards for each sensor are available, one for each of two package types offered. Daughterboards for the STLM20 in a UDFN package and the STTS75 in an SO8 package (order codes STEVAL- IFS012V3 and STEVAL-IFS012V5, respectively) are included with the STEVAL-IFS012V1 kit.



1 Schematic diagram

Figure 1. STEVAL-IFS012V1 (motherboard) circuit schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
26-Apr-2010	1	Initial release.

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