

1 Introduction

This document provides the electrical schematics of the printer port module used with the MS5534 and MS5535.

2 Schematic

The MS5534 (or MS5535) must be powered with a voltage, VDD, in the range of 2.4 to 3.6V. Unfortunately, there is no real power output at the parallel port connector. So we generate the appropriate supply voltage by creating a simple regulator (using a Zener diode) feed by some digital outputs of the parallel port, set to the logical state "1".

The DIN and SCLK signals are driven by a 74LCX04 IC with 5V compliant inputs working at VDD. The external pull-down resistors on the digital outputs lines (DIN and SCLK), are used to bias the inputs of the 74LCX04 if the parallel port is set to three-state mode.

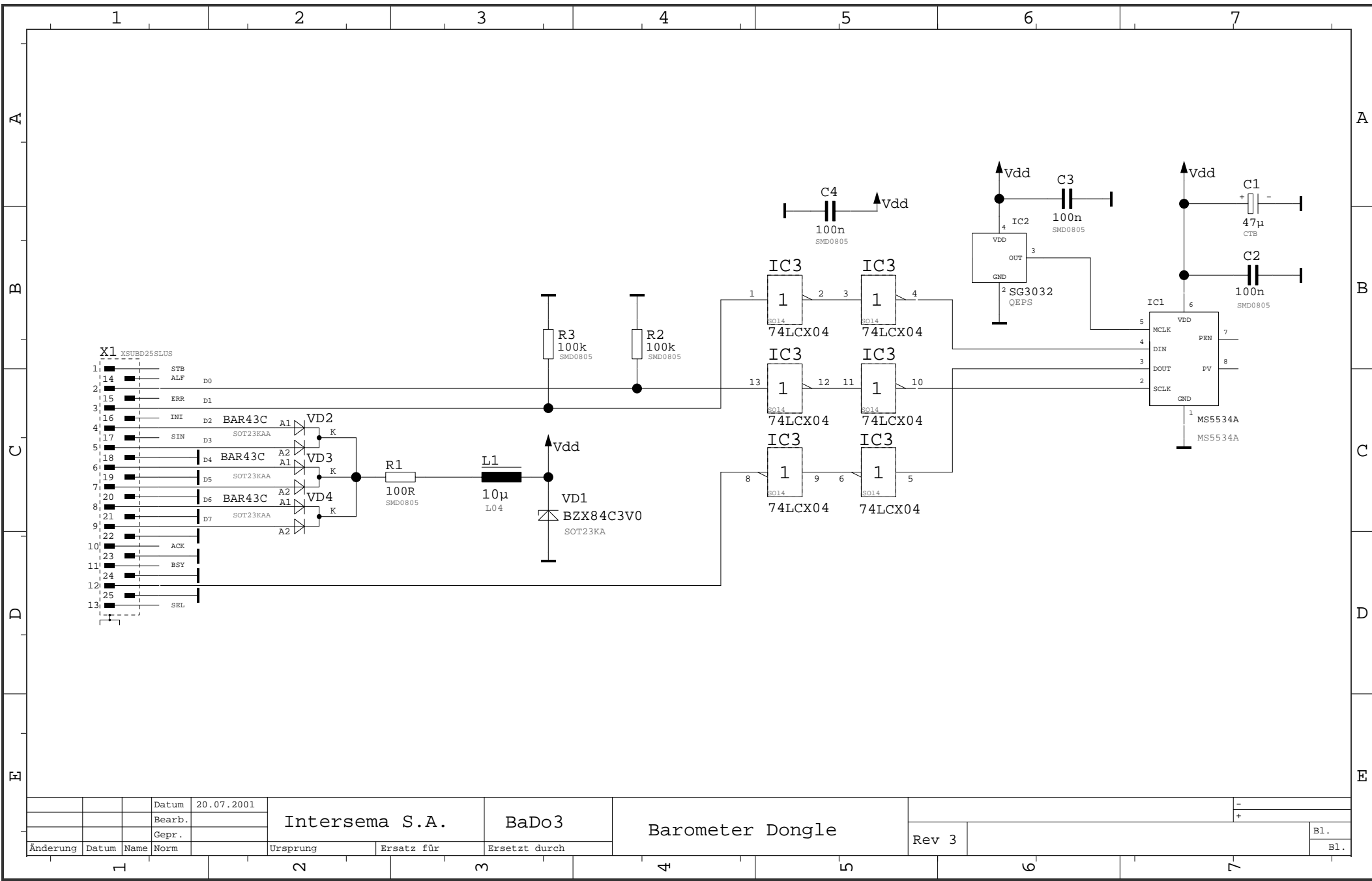
The DOUT is also driven by the 74LCX04 IC to the "Paper-out" input of the parallel port. DOUT will not go higher than VDD. So we are using the fact that the threshold between logic 1 and logic 0 is near 2.5V to be sure that the 3V DOUT signal is interpreted as a digital 1 by the computer.

The MCLK signal is generated by a SG-3032JC oscillator from Epson electronics. Technical information can be found on EPSON's web site:

www.epson-electronics.de for Europe and

www.eea.epson.com for the United States (search for "SG-3032")

Please also note that there is the 47 μ F condensator near the MS5534 device.



			Datum	20.07.2001	Intersema S.A.		BaDo3		Barometer Dongle		Rev 3		Bl.	
			Bearb.											
			Gepr.											
Änderung	Datum	Name	Norm		Ursprung	Ersatz für	Ersetzt durch						Bl.	Bl.

REVISION HISTORY

Date	Revision	Type of changes
March 18, 2003	V1.1	Initial release

FACTORY CONTACTS

Intersema Sensoric SA Ch. Chapons-des-Prés 11 CH-2022 BEVAIX SWITZERLAND	Tel. (032) 847 9550 Tel. Int. +41 32 847 9550 Telefax +41 32 847 9569 e-mail: sales@intersema.ch http://www.intersema.ch
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