Isolated
Synchron-Serial-Interface-Board
SSI 1276

Highlights
- 4 Synchron-Serial-Interfaces
- Optoisolated From PC-Ground
- 4 Optoisolated Taring Inputs
- 6 Optoisolated Digital Outputs Channel
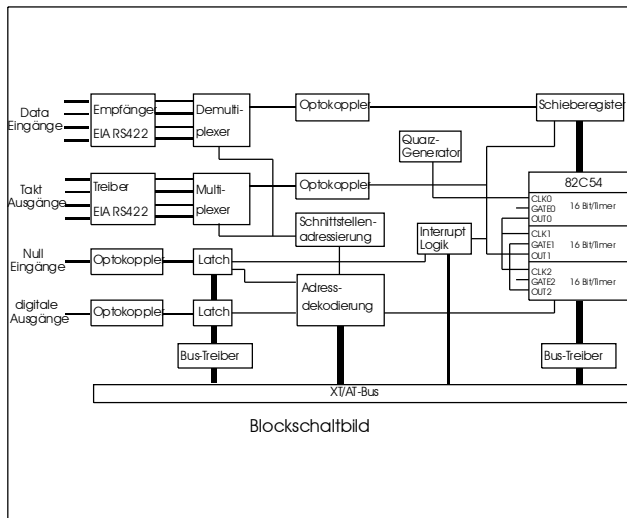- Meets EMV-Specifications

General

The SSI 1276 board represents an input/output board for IBM compatible computers. The board is especially designed for data transfer from absolute encoders supplied with a SSI-Interface to a host computer.

The SSI 1276 board is supplied with 4 independent SSI-Interfaces. ALL input channels are optically isolated from PC-Ground. Additionally there are 4 isolated reset inputs for taring the received position. Besides there are 6 isolated digital output channels for switching or controlling. Because of the isolation the board will work well under heavy industrial enviroment.

grammable counters. According to the appropriate programming of these counters some different parameters for a data transfer can be selected. The selected parameters are listed below

Used Interfaces	prog. Parameter
One Interface	Clock Frequency
	Number of Bits
	Measuring Rate
2 to 4 Interfaces	Clock Frequency
	Number of Bits

Connector

For connecting input and output signal the SSI 1276 board is supplied with a D-SUB 37-pole connector.

Software

A disk is includes with programming examples for

Blockschaltbild

I/O Adress Selecto

The base address can be selected by a DIP-switch. The I/O base address can be set within the address range from 100_h to $2FF_h$. The SSI 1276 board uses the I/O address range from base address +0 to base address +7.

If a data transfer from the encoder to the computer is completed, an interrupt is generated. The interupt channel needed can be selected by a jumper. selectable interrupts are IRQ10, IRQ11, IRQ12 and IRQ15.

The controlling of a data transfer is done by 3 pro-

Technical Specifications	
Synchron-Seriell-Interface	: 4 x SSI-Interface
Interrupt	: IRQ10, 11, 12 oder 15
Data-Input Channels	: EIA RS422 optoisolated
Received Bits	: max. 25 Bit
Clock Output	: EIA RS422 optoisolated
Clock Frequency	: max. 1 MHz
Digital Output Channels	: 6, optoisolated
Switchable Output Current	: max. 30 V / 25 mA
External Power Supply	: max. 30 V
Power Supply (Board)	: +5 V, max. 0,5 A
Connector	: 37-pole. SUB-D male
EMV	: EMV-conform with 89/336/EWG
Operating Temperature	: 0 - 50 °C
Storage Temperature	: - 25 to +85 °C
Dimensions	: 162 x 112 mm

Basic, Turbo Pascal, C, 16-Bit DLL for Windows 3.x, 32-Bit DLL for Windows 95.

Ordering Information
SSI 1276