

SC13

SC13-LF (RoHS compliant)

Embedded Web-Controller
 SC186-CPU @40 MHz
 512KB RAM
 512KB Flash
 10/100BaseT Ethernet
 Software runtime licence SL01 included



Technical data

Processor	SC186/40 MHz (AM186 compatible)
Working Memory (RAM)	512KB (free user space see API documentation)
Flash Memory (RTOS and Flash disk)	512KB (free user space see API documentation)
Serial	2xTTL port (RxD, TxD, RTS, CTS with DMA)
Ethernet	10/100BaseT
I/O	14 PIO, Intel Address/Data-Bus
Supply Voltage	5.0V +/-5%
Active current	300 mA (typical)
Operating temperature (TA)	SC13 = 0°C to +70°C SC13-LF = -25°C to +70°C
Operating system	IPC@CHIP RTOS
Footprint	DIL32

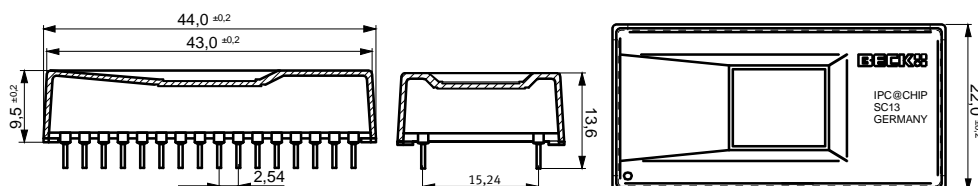
Features

Six programmable Chip Selects with 256-byte I/O space
 Two full-featured asynchronous serial ports allow hardware handshaking with CTS and RTS selectable for each port. Independent baud rate generators.
 Flash Memory with min. 10000 cycles
 Full integrated 10/100Base-T transceiver (IEEE 802.3 standard)
 Traffic LED output
 I²C-Bus can be assigned to any PIO pins configured by software
 SPI-Bus can be assigned to any PIO pins configured by software
 Internal Watchdog
 Power detection Input
 Two independent DMA channels
 Two independent programmable Timer
 Five Interrupt inputs, expandable with an external interrupt controller
 Pulse Width Demodulator

Pin Configuration

PIO7 / RXD0	1		32	VCC
PIO8 / TXD0	2		31	DRQ1 / INT6 / PIO0
PIO9 / CTS0	3		30	DRQ0 / INT5 / PIO1
PIO10 / RTS0	4		29	A2 / PCS6# / PIO2
PIO11 / TXD1	5		28	A1 / PCS5# / TMRIN1 / TMROUT1 / PIO3
PIO12 / INT3 / RXD1	6	IPC@CHIP SC13/SC13-LF	27	A0 / PCS1# / TMRIN0 / PIO4
PIO13 / INT0 / TMROUT0	7		26	RTS1 / PCS3# / INT4 / PIO5
AD0	8		25	CTS1 / PCS2# / INT2 / PWD / INTA# / PIO6
AD1	9		24	ALE / PCS0#
AD2	10		23	WR#
AD3	11		22	RD#
AD4	12		21	TPRX-
AD5	13		20	TPRX+
AD6	14		19	TPTX-
AD7	15		18	TPTX+
GND	16		17	RESET# / NMI / Traffic LED

Physical dimensions



Design and handling guidelines

A DIL32 socket must be used within a wave soldering process or a reflow soldering process.

The SC13/SC13-LF should not be plugged in the socket during the soldering process.



Electrostatic Sensitive Device

Ordering information / Order-No.:

SC13	536079
SC13-LF	542546