

## SC12 / SC12-LF

Embedded Web-Controller  
 186-CPU / 20 MHz  
 512KB RAM  
 512KB Flash  
 10BaseT Ethernet  
 Software runtime licence SL01 included



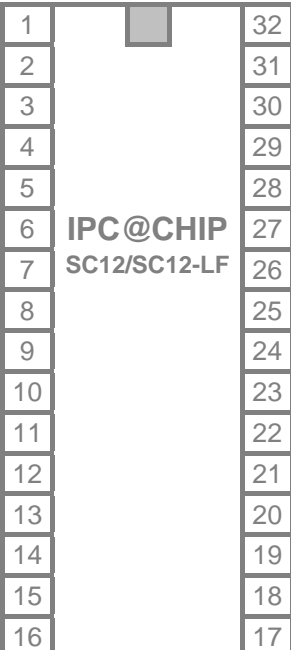
### Technical data

Processor	186/20 MHz
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	10BaseT
I/O	14 PIO, Intel Address/Data-Bus
Supply Voltage	5.0V +/-5%
Active current	180 mA (typical)
Operating temperature (TA)	0°C to +70°C
Operating system	IPC@CHIP RTOS
Footprint	DIL32

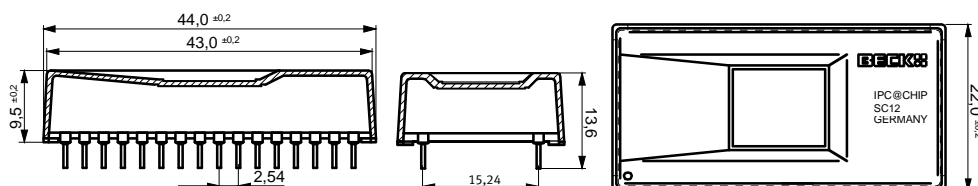
### Features

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 10Base-T transceiver (IEEE 802.3 standard)
Traffic LED output
I <sup>2</sup> C-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		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 SC12/SC12-LF should not be plugged in the socket during the soldering process.



Electrostatic Sensitive Device

## Ordering information / Order-No.:

SC12	536079
SC12-LF	542490