


**PRODUCTS**


### C541U Family Multipurpose Microcontroller with On-Chip USB Module

The C541U family is a new range of derivatives based on the C500 8-Bit microcontroller with added new peripherals. It combines the well known functionality of the standard SAB-C511 microcontroller with enhanced features. The C541U family feature an SPI compatible interface and a USB module which meets the Universal Serial Bus specification. The high peripheral performance and the USB feature is ideal for telecommunication, computer peripheral and consumer applications. The optimised FIFO memory management units and the ability to work in full and low speed mode makes this microcontroller especially suited for Computer Telephony Integration designs.

#### ▶ C541U

8-bit microcontroller with USB

#### Related Solutions/Applications

#### Features:

- Enhanced 8-bit C500 CPU - Full software/toolset compatible to standard 80C51/80C52 microcontrollers
- 12 MHz external operating frequency - 500 ns instruction cycle
- Built-in PLL for USB synchronization
- 8 KByte on-chip OTP program memory
- 256 Byte on-chip RAM
- On-chip USB module - USB specification 1.1 compliant
- Four parallel I/O ports
- LED current drive capability for 3 pins (10 mA)
- SSC synchronous serial interface (SPI compatible)
- P-LCC-44 Package

#### Typelist (for details see [Parameterlist](#))

Product Type	Attachment	Description	Order Code
SAB-C541U-1EN	N/A	8K OTP, 12 MHz, 0/70 degC	Q67121-C2001

#### Additional Documentation and Information:

#### Datasheet

Description	Date/State	Size
<a href="#">C541 - Datasheet</a> (d540.pdf)	05.99   OK	498 kB

#### User's Manual

Description	Date/State	Size
<a href="#">C541U Users Manual</a> (m541.pdf)	04.99   OK	1.76 MB

#### Product Brief

Description	Date/State	Size
<a href="#">PITA PSB 4600 - Product Brief</a> (pita_11b.pdf)	10.98	72 kB
<a href="#">SAB C161U - Product Brief</a> (SABC161Ub.pdf)	06-2000	114 kB

#### Product Family Overview

Description	Date/State	Size
<a href="#">C541U Family - Product Overview</a> (p541u.pdf)	11.98   OK	31 kB

#### Application Notes

Description	Date/State	Size
<a href="#">C541U Enumeration process (Full Speed)</a> (usb_enum.ppt)	02.98   OK	1.56 MB
<a href="#">C541U Enumeration C-Code(Full Speed)</a> (fs.zip)	02.98   OK	167 kB
<a href="#">USB Device Enumeration Using the C541 Microcontroller 1</a> (ap083301.pdf)	06.99   Rel. 01	279 kB

#### Graphic

Description	Date/State	Size
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Description	Date/State	Size
<a href="#">C541U-1EN ES-B12 Step</a> (c541u_esb12_15.pdf)	07.01   Rel. 1.5	52 kB
<a href="#">C541U-1EN ES-CA</a> (c541u-1e_ca_15.pdf)	06.01   Rel. 1.5	31.6 kB