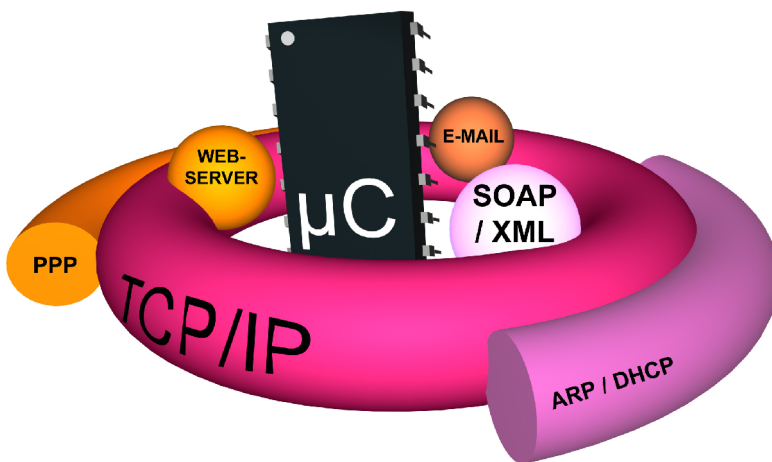


## XML embedded 1.0

### Standardised data exchange

The sevenstax XML (eXtensible Markup Language) parser & generator was developed to provide a resource saving and standardised method for exchanging data between embedded systems. An application which integrates the sevenstax XML generator does not have to build XML code packets itself but must only define an arbitrary nested XML template with dynamic data entries. An application which uses the sevenstax XML parser does not have to examine all received XML data packets but must only define handler routines which are called during the parse process. Both the generator and the parser does not handle with large buffers - they are working 'on-the-fly'.



To use the XML module the application has to specify the XML namespaces. Every namespace consists of a list of tags and attributes, a namespace URL and for the generator a used namespace prefix. Every tag and every attribute is assigned to an id. Both the templates for the generator and the handler routines for the parser handles only with these id's.

#### Memory & System Requirements:

ROM: **13 kbyte**  
RAM: **0,5 kbyte**

32-Bit timer/counter (software) with a resolution of 1 ms

#### What you get:

- well documented source code
- detailed API-documentation
- sample code
- documented demo/sample projects (platform dependent)

#### Characteristics:

- small memory footprint
- suitable for use in micro controllers from 8...32 bit
- asynchronous performance without OS multithreading capability
- enables embedded systems to generate and process XML data in a resource saving way
- easy integration of the XML module in existing software
- supports the definition of name spaces, templates for XML generation and handler routines for XML parser
- portability - ANSI C
- streaming XML parser, i.e. received data is evaluated during receipt to minimize the required buffer
- streaming XML generator, i.e. the XML data to sent is not buffered but is delivered in small packets
- independent of an operating system

**sevenstax GmbH**  
Hamburger Allee 43  
30161 Hannover  
Germany  
phone: +49 511 473 86 04  
fax: +49 721 151 505 622  
email: info@sevenstax.com  
[www.sevenstax.com](http://www.sevenstax.com)