



## TCPIP Stack - TriCore Platform Manual

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**Revision History**

Version	Date	By	Reason	Approved
1.0	Feb 4, 2005	APS	Initial version	

# 1 Platform: TriCore-TC1130

## 1.1 source

tricore\sys_tricore.c	TriCore specific general code
tricore\sys_tricore.h	
tricore\eth_tricore_tc1130.c	TriCore specific lowlevel ethernet driver for the TC1130
tricore\serial_tricore.c	Tricore specific lowlevel serial driver
tricore\drv\*	TC1130 low level ethernet driver

This source is meant as a "getting started" service, the driver sources should probably be merged with those needed for an actual project.

## 1.2 Compile time settings in tcpipset.h

### 1.2.1 #define TRICORE\_CLKFREQ

(default 20)

CPU clock as used by the hardware.

### 1.2.2 #define TRICORE\_SERIAL\_BAUDRATE

(default 38400)

Line speed for SERIAL module.

### 1.2.3 #define TRICORE\_SERIAL\_BUFSIZE

(default 2048)

Lowlevel buffer used for SERIAL module. As the driver does not implement hardware handshaking this should be big enough to buffer a complete PPP frame.

### 1.2.4 #define ETH\_RECVBUFCOUNT

(default TCPIP\_SESSIONS + 1)

Number of received ethernet frames buffered. Each buffer uses about 1.5 Kb. As the stack is usually slower than the hardware, allocating less than the number of possible TCP sessions is not a good idea as we would have to rely on the retries from the other side. This is not reliable (very good change of the other side aborting due to a timeout) and disastrous for the throughput.

## 1.3 Usage

All routines are only used internally by the stack.