# Micriµm

**Empowering Embedded Systems**

# µC/TTCP

## V1.90

# Release Notes

## Revision History

| Version | Date | Description |
| --- | --- | --- |
| V1.90 | 2007 May | Bug fixes & improvements. |
| V1.89 | 2007 Mar | Enhancements. |

## Requires the following versions of needed Modules

### Version 1.90

**µC/TCP-IP**  Version 1.90

**µC/LIB**  Version 1.24

**µC/CPU**  Version 1.17


### Version 1.89

**µC/TCP-IP**  Version 1.89

**µC/LIB**  Version 1.23

## New Features

### Version 1.90
N/A


### Version 1.89
N/A

# Improvements

## Version 1.90

**V1.90-001**

Added error handling for socket functions.

**V1.90-002**

Abort transmission or reception when connection is closed.

**V1.90-003**

Improved command line parser.

## Version 1.89

N/A

# Changes

## Version 1.90

**V1.90-001**

Changed declaration of `TTCP_Buf` to use external parameter for size: `TTCP_CFG_BUF_LEN`.

**V1.90-002**

Replaced use of `CPU_FP64` to `CPU_FP32` on statistics computation.

## Version 1.89

**V1.89-001**

Changed uC/TCP-IP socket timeout configuration functions calls following API modifications.

**V1.89-002**

Changed `ttcp_cfg.h` timeout configurations from previously configuring timeouts in units of seconds to configuring in units of milliseconds:

```
TTCP_CFG_MAX_ACCEPT_TIMEOUT_MS
TTCP_CFG_MAX_CONN_TIMEOUT_MS
TTCP_CFG_MAX_RX_TIMEOUT_MS
TTCP_CFG_MAX_TX_TIMEOUT_MS
```

## Corrections

### Version 1.90

**V1.90-001**

Fixed timeout configuration functions arguments to use the proper defined configuration parameter.

**V1.90-002**

Fixed UDP testing.

**V1.90-003**

Fixed `TTCP_RemoteIP` variable size to avoid buffer overrun.

**V1.90-004**

Check for valid socket before trying to accept connection.

**V1.90-005**

Force UDP maximum packet size to `NET_UDP_MTU`.

**V1.90-006**

Replaced floating-point accumulation with integer accumulation for amount of data received.

**V1.90-007**

Fixed computation of gigabytes, megabytes, and kilobytes in `TTCP_OutFmt`.

**V1.90-008**

Removed compilation warnings for unmatched sign on `CHAR` variables.


### Version 1.89

N/A

# Known Problems

## Version 1.90
N/A

## Version 1.89
N/A

## Limitations

N/A

# Contacts

**Micriμm**
949 Crestview Circle
Weston, FL 33327
USA
+1 954 217 2036
+1 954 217 2037 (FAX)
e-mail: Licensing@Micrium.com
WEB: www.Micrium.com