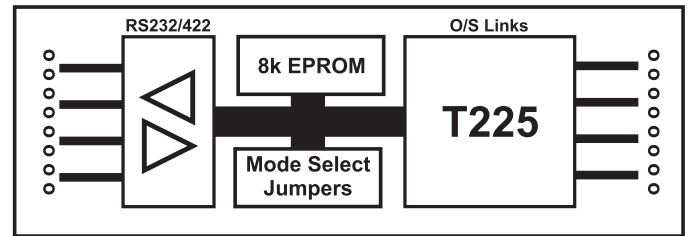


# TTM21 / TTM23 RS232 / RS422 to transputer interface



The Transtech TTM21 and TTM23 respectively enable up to four RS232 or RS422 connections per TRAM to be made to a transputer network. The RS232 and RS422 interfaces support serial transfer rates of 9.6Kbaud and can buffer up to 256 bytes internally. This is more than adequate for interfacing a mouse, keyboard, printer or instrumentation.

The TTM21 and TTM23 TRAMs are logically identical, except they support different serial I/O standards. By default, the TTM21/TTM23 TRAM can be treated as a standalone transputer link to RS232/RS422 interface. Alternatively the serial interface can be configured in software. In this mode multiple TTM21 and or TTM23 TRAMs can be daisy-chained allowing large numbers of RS232 and or RS422 connections to be controlled from a single transputer link. Transfer rates in software mode can be up to 9.6Kbaud on up to four ports and up to 38.4Kbaud on one.

Transputer libraries, include files and example programs are supplied for Inmos ANSI C and occam to aid development of applications using the TTM21/TTM23 in software mode.

Both the TTM21 and the TTM23 TRAM have an SGS Thomson T225 transputer fitted which is normally used in boot from ROM mode. The 8K EPROM contains the code executed by the T225 transputer after reset.

The TTM21 TRAM can support three types of RS232 interfaces which are characterized by the number of cable wires used. These are three, five and seven wire modes. The equivalent RS422 modes supported by the TTM23 TRAM are four, eight and twelve wire modes.

- ❖ **RS232 or RS422 interface**
- ❖ **Up to 4 serial interfaces per TRAM**
- ❖ **Up to 38.4 Kbaud**
- ❖ **Standard size 1 TRAM format**

## ORDERING INFORMATION

TTM21 RS232 interface TRAM  
TTM23 RS422 interface TRAM