

DATA SHEET

Communications

ST68C454

Quad UART with a Dual Foot Print Interface

AP NOTE
DAN-107AP NOTE
DAN-108AP NOTE
GEN UART

Features

- Software compatibility with the Industry Standard 16C450
- 1.5 Mbps transmit/receive operation (24MHz)
- Independent transmit and receive control
- Software selectable Baud Rate Generator
- Modem control signals (-CTS, -RTS, -DSR, -DTR, -RI, -CD)
- Programmable character lengths (5, 6, 7, 8)
- Even, odd, or no parity bit generation and detection
- Internal loop-back diagnostics
- TTL compatible inputs, outputs
- Low power

The ST16C454 is a universal asynchronous receiver and transmitter (UART) with a dual foot print interface. The 454 is an enhanced UART with data rates up to 1.5Mbps and software compatible to ST16C450. Onboard status registers provide the user with error indications and operational status, modem interface control. System interrupts may be tailored to meet user requirements. An internal loop-back capability allows onboard diagnostics.

The ST16C454 offer an additional 68 mode which allows easy integration with Motorola, and other popular microprocessors. The 454 combines the package interface modes of the ST16C454 and ST68C454 series on a single integrated chip.