

# Communications

## ST49C101A

### Preprogrammed High Speed Frequency Multiplier

#### Features

- Mask Programmable Analog Phase Locked Loop
- Up to 200MHz Operation
- Preprogrammed Multiplication Factors of 2, 3, 4, 5, 6, 8, 10 and 12X
- Low Output Jitter
- Replace Expensive High Frequency Oscillator
- Crystal Oscillator Circuit On Chip
- Low Power Single Supply 5V or 3.3V CMOS Technology
- Small 8 Lead SOIC Package

#### Applications

- Voltage Controlled Crystal Oscillator (VCXO)
- System Clock Multiplication in:
  - Computer Systems
  - Telecommunications Systems
  - Set-top Boxes

The ST49C101A-XX is a mask programmable monolithic analog CMOS device, designed to replace existing high frequency crystal/oscillator with single low frequency crystal. The ST49C101A-XX provides high speed and low jitter clock output.

The ST49C101A-XX is designed in a CMOS process to achieve up to 150 MHz speed for high end frequencies.