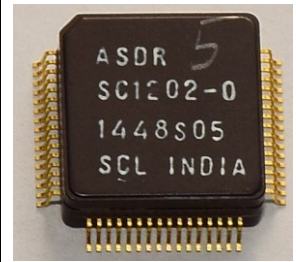


Addressable Synchronous/Asynchronous Differential Receiver (ASDR)



SCL Part No.

SC1202-0

FEATURES:

- Synchronous / Asynchronous serial (RS422) to parallel converter with different modes.
- 4 Operating Mode (3 Synchronous and 1 Asynchronous)
- 5Bit Local Address
- 10 Mbps Speed (as per RS422 Std.)
- Common Mode Voltage:0.5 V to 2.7V
- RS 422 Input Sensitivity:0.2V to 3.3V
- On Chip Oscillator: 3.12 MHz
- On Chip LVR:1.8V±4%, 50mA
- Operating Temperature:-40°C to +125°C
- Power Supply: AVDD-3.3V,DVDD- 1.8V
- Current Consumption: ≤10mA

DESCRIPTION:

ASDR (Addressable Synchronous / Asynchronous Differential Receiver) is a mixed signal ASIC being developed under Technology Development Project (TDP). It has three RS422 differential receivers, one RS422 differential transmitter, Digital Serial to Parallel Converter, on chip oscillator, Linear Voltage Regulator (LVR) and power on reset circuit.

The ASIC takes up to three RS422 differentials inputs and convert it into 16 bit CMOS parallel Signal with different modes.

Mode-0: synch 24 bit data, with a strobe width of 24 bit

Mode-1: synch 24 bit data, with a strobe width of 1 bit

Mode-2: synch 16 bit data, with gated clock

Mode-3: asynchronous 8 bit UART

