

# XR19L400/402

## 1-Ch and 2-Ch Integrated UART and RS-485 Transceivers

### Ideal for Low Power, Embedded Applications

The XR19L400 (L400) and XR19L402 (L402) are highly integrated devices that combine a full-featured single channel (L400) or two channel (L402) Universal Asynchronous Receiver and Transmitter (UART) and RS-485 transceivers. The L400 and L402 are designed to operate with a 3.0V to 5.5V power supply. The L400 and L402 are fully compliant with RS-485 Standards.

The L400 and L402 operate in four different modes: Active, Partial Sleep, Full Sleep and Power-Save. Each mode can be invoked via hardware or software. Upon power-up, the L400 and L402 are in the Active mode where the UART and RS-485 transceiver function normally. In the Partial Sleep mode, the internal crystal oscillator of the UART or charge pump of the RS-485 transceiver is turned off. In Full Sleep mode, both the crystal oscillator and the charge pump are turned off. While the UART is in the Sleep mode, the Power-Save mode isolates the core logic from the control signals (chip select, read/write strobes, address and data bus lines) to minimize the power consumption. The RS-485 receivers remain active in any of these four modes.

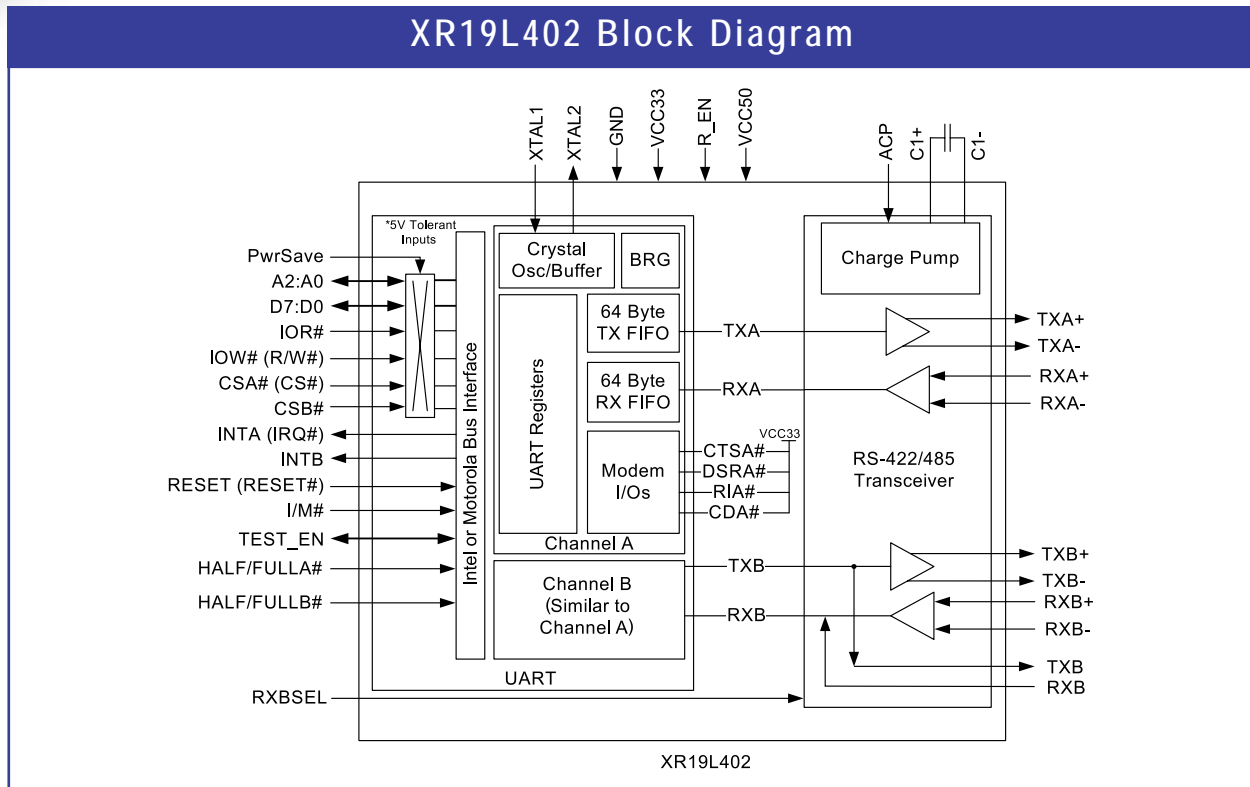


### Major Features

- Meets true RS-485 Standards from +3.0V to +5.5V operation
- Up to 8 Mbps data transmission rate
- 45us sleep mode exit (charge pump to full power)
- Full-featured UART
- 40-pin QFN (L400)
- 48-pin QFN (L402)
- Pb-Free, RoHS Compliant Versions Offered

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### Features

- ESD protection for RS-485 I/O pins at
  - +/-15kV - Human Body Model
  - +/-15kV - IEC 61000-4-2, Air-Gap Discharge
  - +/- 8kV - IEC 61000-4-2, Contact Discharge
- Software compatible with industry standard 16550 UART
- Intel/Motorola bus select
- Complete modem interface
- Sleep and Power-save modes to conserve battery power
- Wake-up interrupt upon exiting low power modes

### Applications

- Battery-Powered Equipment
- Handheld and Mobile Devices
- Handheld Terminals
- Industrial Peripheral Interfaces
- Point-of-Sale (POS) Systems

### Ordering Information

Product No.	Package	Operating Temp. Range
XR19L400IL40	40-pin QFN	-40°C to +85°C
XR19L402IL48	48-pin QFN	-40°C to +85°C

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