

# Communications

XRT3588/XRT3589

## V.35 Network Interface

### Features

- Compatible with ITU-T V.35 and Bell 306 Interface Requirements
- TTL Input Compatibility
- High Common Mode Output Voltage Range
- Excellent Stability over Supply and Temperature Range
- High Speed Operation (up to 10Mbps)
- Individual Receive/Transmit Power Down Capability

### Applications

- High Speed Data Transmission Systems
- Short Haul Modems
- Signal Converters and Adapters
- Network and Diagnostic Systems
- Matrix Switches
- Modem Emulators

This V.35 chip set consists of two bipolar chips, one performing a receive function, the other a transmit function according to the specification requirements laid down in Appendix 11 of the V.35 ITU-T Recommendation and Bell 306 modem interface specification.

Typical applications require three transmit and receive pairs to establish the link between distant DTE's at data rates ranging from 48Kbps to 10Mbps. To conserve power (especially in the transmitter, which requires approximately 22mA or each output stage to meet ITU-T specifications), power-down functions are included in both devices, allowing any of the three receive/transmit circuits to be disabled. All inputs and outputs are TTL compatible and designed to offer maximum versatility and performance.

Both the transmitter and receiver require termination resistors external to each device, to meet the V.35 specification tolerance.