

Link Level Controller X.25, Group IV FAX, TELETEX

WD2512

T-75-11-33

Features

Managing the Communication Link

- ☐ Handles the entire link level protocol of CCITT X.25
- ☐ Enhanced to meet the DCNA Group IV Facsimile Standard for the Japanese INS Network
- ☐ Programmable time out and retransmission parameters
- ☐ Automatic error detection and data retransmission
- ☐ Automatic flow control
- ☐ Automatic handling of all address and control fields
- ☐ Compatible with the WD2511A
- ☐ Built-in loopback testing
- ☐ Can operate as a LAPB half-duplex station

VLSI Design Provides Top Performance

- ☐ Transmission speeds to 2.048 Mb/s available
- ☐ Built-in dual channel DMA
- ☐ On chip buffer management
- ☐ Available in 48 pin DIP ceramic package

WD2512 Extras

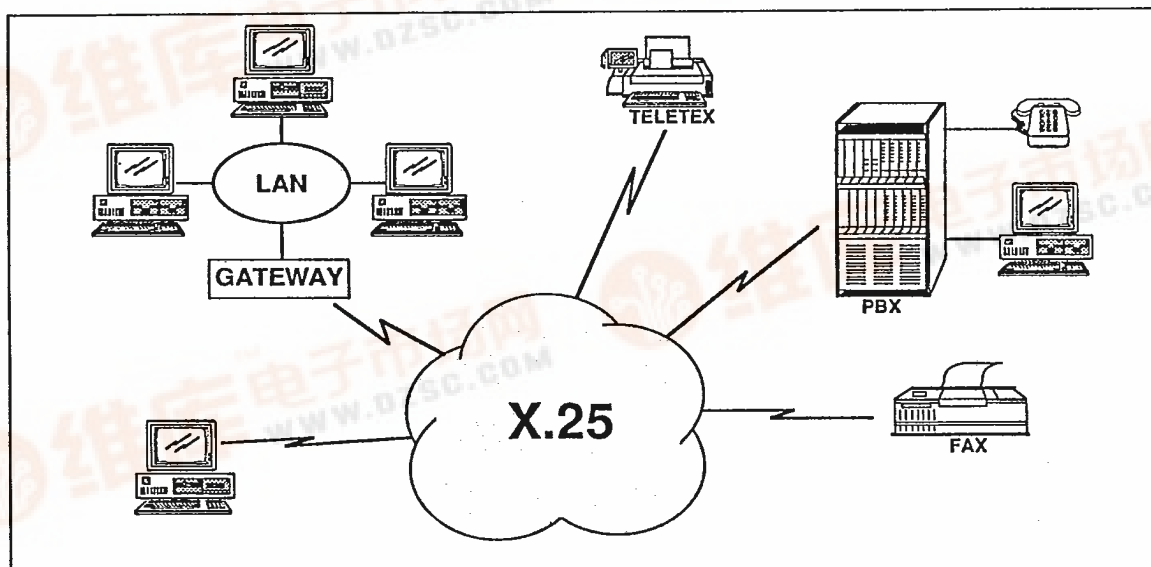
- ☐ Single +5V supply
- ☐ Lower power consumption
- ☐ Also available in 68 pin plastic package suitable for SMT

Description

The 2512 link level controller provides a low cost solution for managing data communication links for CCITT X.25, Group IV FAX and TELETEX equipment. This controller was

especially designed for packet switching networks. The design was based on a proven and certified implementation, the WD2511A, the first complete implementation of the CCITT Recommendation X.25 LAPB protocol in a chip.

The WD2512 is a 48 pin NMOS LSI device which provides a unique solution for point-to-point communications. It offloads the host by implementing the full link-layer protocol of the international standard recommendation X.25. This bit oriented, serial-link controller automatically handles the transmission and reception of packets of data on two internal DMA channels, acknowledges the receipts of error-free packets, and requests that lost or erroneous packets be retransmitted.



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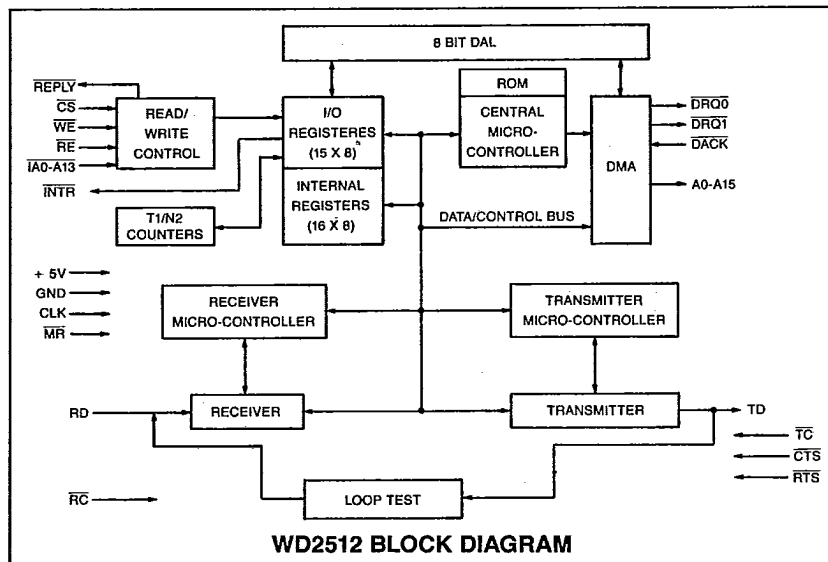
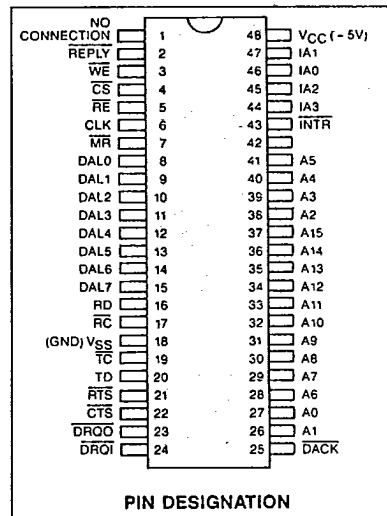
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The host is interrupted after receiving an error free packet, after receiving acknowledgment of a transmitted packet, and after detecting certain error or abnormal conditions on the link.

Applications

Group IV facsimile
Packet switches
X.25 terminals
PADs
TELETYPE terminals
Videotex
Gateways/Protocol converters
Error correcting modems
Point-of-sale
Computer-to-computer communications



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