

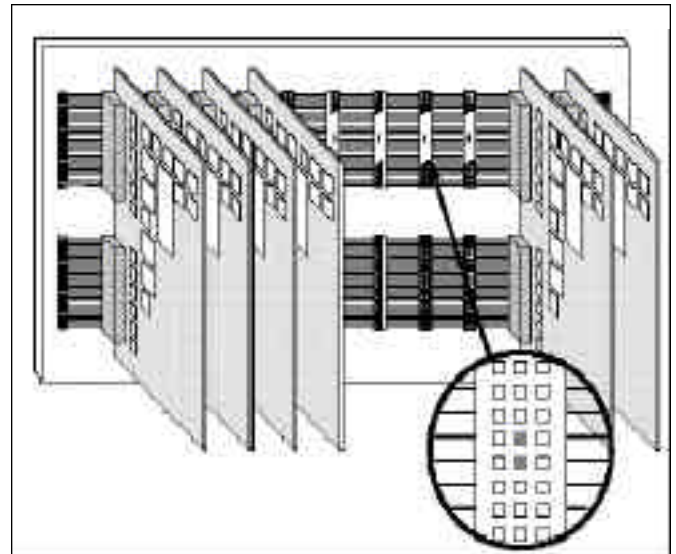
VME 320 BACKPLANE TRANSCEIVER

Fairchild Semiconductor's V320 8-bit universal bus transceiver is designed for high speed interfacing with the VME 320 backplane. Output characteristics are optimized for driving large capacitive loads and include modified input levels (V_{IN}/V_{IL}) for increased noise immunity and reduced input skew.

The V320 functionality consists of bus transceiver circuits with 3-STATE, D-type flip-flops, and control circuitry arranged for multiplexed transmission of data directly from the input bus or from the internal registers. Data on the A or B bus is clocked into the registers as the appropriate clock pin goes to a high logic level. Output Enable (OE) and direction pins control the transceiver function. In the transceiver mode, data that is present at the high impedance port may be stored in either the A or B register or in both. The select controls can multiplex stored and real time (transparent mode) data. The direction control determines which bus will receive data when the enable control OE is active LOW. In the isolation mode (OE HIGH), A data may be stored in the B register and/or B data may be stored in the A register.

Features/Performance

- o Guaranteed output skew
- o Guaranteed MOS (Multiple Output Switching) specifications
- o Output switching specified for 50pF, 250pF, and 500pF loads
- o Guaranteed simultaneous switching noise level (V_{OLP}/V_{OLV}) and dynamic threshold performance (V_{IHD}/V_{ILD})
- o Independent registers for A and B buses
- o Multiplexed real-time and stored data
- o Glitch-free power up/down high impedance for live insertion
- o BiCMOS technology for high drive and low power dissipation; -40°C to $+85^{\circ}\text{C}$ commercial temperature and V_{CC} specifications
- o Modified specifications across V_{CC} and temperature ($V_{CC} = 5.0\text{V} \pm 1\%$, $T = +25^{\circ}\text{C} \pm +20^{\circ}\text{C}$) present more realistic system conditions
- o Available in 24-lead TSSOP (MTC packaging code)



Availability

Function	Package Description	Leads	TSSOP	TSSOP T&R*
V320	8-Bit Registered Transceiver	24	MTC	MTCX

* Tape & Reel

For more information on the V320 and Fairchild Semiconductor's other backplane solutions, visit us at:
www.fairchildsemi.com/products/backplane/