A GaAs 200 Mbps
64 x 64 Crosspoint Switch

The VSC864
Features

- Superior Performance: 200 Mb/s
- Duty-cycle Distortion @ 200Mb/s: 10%
- Operating Range: -40° to +85°C
- Power Dissipation: 8 Watts (Typical)
- Clocked or Flow-through Operation
- ECL F100K Compatible Inputs and Outputs
- Output to Output Skew: < 1500 ps
- Output Drive Capability: 25Ω
- Single Power Supply: -2 V ± 5%
- Package: 344-pin Ceramic LDCC
- Full Diagnostic Monitors
- Cascadable to Larger Systems
Expandability

Typical Application: Telecommunications

VITESSE
Typical Application: Multiprocessor Interconnect

FURY™ 30K Gate Array: VSC30K

- 2-Input Gates: 30,528
- D Flip-flops: 2,520
- I/O Cells: 156
- Input Only Cells: 100
- Total I/O: 256
- I/O Types: TTL, ECL, GaAs
- High Drive Inputs: 8
- Typical Power*: 6.5 W
- Worst Case Power*: 10.5 W
- Die Size: 13.8 mm x 7.7 mm
- Package: 344 LDCC

* at 50% utilization
DCFL 2-input NOR and Inverter

2-input NOR

Inverter

The VSC864 in a 344 Pin Ceramic LDCC Package
Summary

- VSC864 – 64x64 Crosspoint
- 200 Mbps
- High Yield H-GaAs II Technology