



XLNT5001™ High Density Multiplexing Module

The 192 channel XLNT5001™ is designed for multiplexing digital test signals in high-volume, high duty cycle semiconductor test applications. It delivers high reliability with very high density multiplexing that can be used whenever a large number of signals need to be multiplexed in a 1:2 configuration. Celerint offers a low resistance (1.0 Ohm) version for use in hard dock applications and a low capacitance (1.1pF) version better suited for soft dock applications where long cables are in the signal path.

THE BEST SOLUTION FOR DIGITAL MULTIPLEXING

High Reliability

Celerint uses solid state multiplexing components to deliver billions of multiplexing cycles.

Trace-Length Matching

All signal paths are trace-length matched, a critical component in the elimination of index time.

Safety First

The XLNT5001™ supports INTERLOCK override of multiplexing operation so that the signal path to compromised hardware will not energize.

Very High Multiplexing Density

Celerint uses a proprietary layout to increase multiplexing density. Celerint can multiplex as many as 1024 digital signals within 40 square inches of PCB real estate.

Benefits of Modular Design

If, for any reason, the XLNT5001 should experience a failure, it can be quickly and easily replaced. Celerint provides the XLNT test module that confirms functionality and signal path integrity quickly and easily.

Feature	Specification
1:2 Multiplexed Channels	196
Max Channel Voltage and Current	Low C: 25V, 150mA , Low R: 60V, 400MA
Isolation (across open switch)	88dB at 100KHz, 68dB at 1MHz, 50dB at 10MHz
Switching Time	< 2ms
Trace-Length Matching	2.2 +/- .01 inches
Operating Voltage and Current	12 V, 900mA
Switching time	< 2 ms
Operating Temperature	-40C to 85C
Dimensions (inches)	3.375 width, 4.75 length, clearance: 0.15 inches bottom, 0.74 inches top