

# Agilent N2260A & N2266A

## 2-wire, 40-channel Multiplexer Module

### Data Sheet

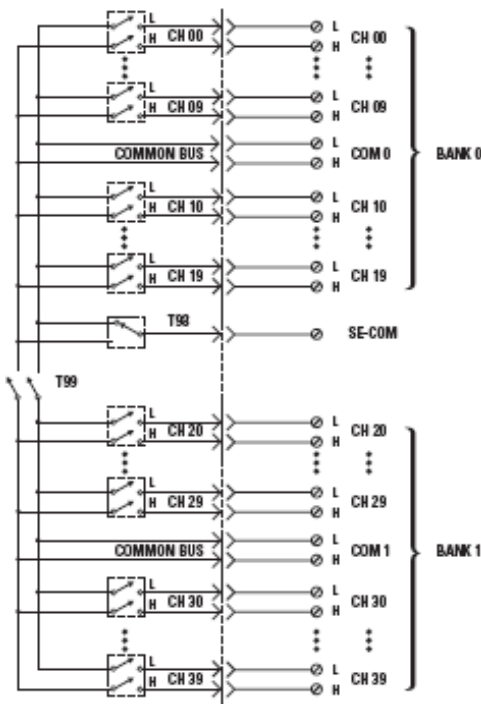
- High speed switching
- Reconfigurable to 1, 2, and 4-wire mode
- Built-in relay cycle counters

The N2260A and N2266A are high density reconfigurable multiplexer (MUX) modules for high-throughput production test. They can be operated in either SCPI or 3488A mode. In SCPI mode, they can be configured in any of the following ways:

- one 80-channel, 1-wire MUX
- one 40-channel, 2-wire MUX
- dual independent 20-channel 2-wire MUXs
- one 20-channel 4-wire MUX.

Up to five N2260/66As can be included in an 3499A mainframe to build a 1- to 200-channel, 2-wire MUX. Screw terminal block, crimp & insert terminal block, and DIN96-to-D50/25 cables are available for ease of wiring. The N2266A can scan at up to 350 channels/second. Low thermal offset voltage makes the N2260A ideal for low-level signal switching.

N2260A/66A MUX Module Terminal Block



### Specifications

#### General Specifications

<b>Relays:</b>	
N2266A	Reed non-latching relay
N2260A	Armature latching relay
<b>Thermal Offset:</b>	
N2266A	<50 $\mu$ V
N2260A	<3 $\mu$ V
<b>Relay Life:</b>	
N2266A	10 <sup>9</sup> @ 1 V, 1 mA
N2260A Mechanical:	10 <sup>9</sup>
N2260A Electrical:	5x10 <sup>8</sup> @ 1 A

<b>Maximum Scan Rate:</b>	
N2266A	350 Chan/sec
N2260A	80 Chan/sec

#### Input Characteristics

<b>Maximum Current:</b>	
N2266A	0.5 A DC or AC peak
N2260A	1 A
<b>Maximum Voltage:</b> 200 V (AC peak for N2266A)	
<b>Maximum Power:</b>	
N2266A	10 W DC or AC peak
N2260A	60 W or 62.5 VA
Initial Closed Channel Resistance: <1 $\Omega$	

#### DC Isolation

Open Channel, Channel-Channel:	<(40 °C, 50% RH) >10 <sup>11</sup> $\Omega$
HI-LO:	<(40 °C, 50% RH) >10 <sup>11</sup> $\Omega$
Channel-Chassis:	<(40 °C, 50% RH) >10 <sup>11</sup> $\Omega$

Note: All voltage and current are in DC or AC RMS if not specified.

#### AC Isolation/Performance

<b>Capacitance (with 1 channel closed):</b>		
	Open Channel,	Channel-Channel
N2266A	<7 pF	
N2260A	<7 pF	
HI-LO	N2266A	<50 pF
	N2260A	<75 pF
<b>Channel-Chassis</b>		
N2266A	<140 pF	
N2260A	<150 pF	

#### Insertion Loss (with 50 Ohm termination):

N2266A	100 kHz	<0.20 dB
	1 MHz	<0.30 dB
	10 MHz	<2.0 dB
	40 MHz	<3.0 dB
N2260A	100 kHz	<0.20 dB
	1 MHz	<0.25 dB

#### Crosstalk (with 50 Ohm termination):

N2266A	100 kHz	<-75 dB
	1 MHz	<-55 dB
	10 MHz	<-33 dB
N2260A	100 kHz	<-70 dB
	1 MHz	<-50 dB

#### Module Accessories

N2290A	Screw terminal block for N2260A, N2266A
N2297A	DIN96-to-Twin-D50 cable
N2299A	DIN96-to-Quad-D25 cable

