Table 41	3607E Digital Output Specification	s (continued)
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Feature	Specification
On-state voltage drop:	
At backplane	< 2 VDC typical @ 250mA, < 3 VDC maximum @ 1A
With external termination, 10-foot cable	< 3 VDC typical @ 250mA, < 4 VDC maximum @ 1A
With external termination, 99-foot cable	< 4 VDC typical @ 250mA, < 7 VDC maximum @ 1A
Inductive kick-back protection (reverse EMF)	Reverse diode on I/O module

- a. Power must be supplied to all points, including unused points on non-commoned panels.
- b. The maximum output toggle rate enables proper operation of I/O diagnostics and detection of all normally detectable faults. The minimum toggle rate provides fault coverage of normally undetectable faults within 10 percent of the calculated mean-time-between-faults (MTBF) for the module.
- c. Diagnostic glitching can be disabled by using the OVD disable function.

24 to 120 VDC Supervised Digital Output Modules

This figure is a simplified schematic for Models 3623, 3623T, and 3624, which are TMR Supervised Digital Output Modules.

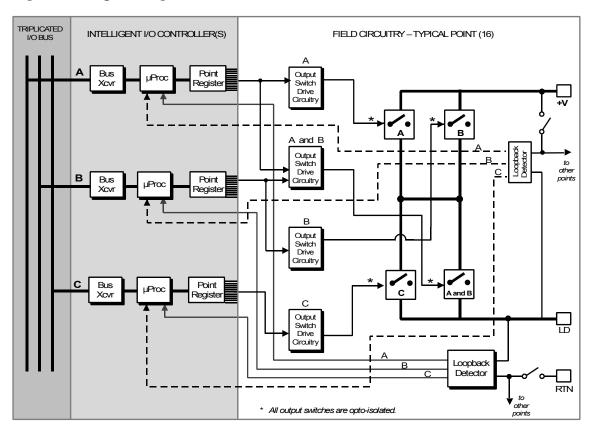


Figure 47 3623, 3623T, and 3624 Simplified Schematic

This figure shows the front panels of Models 3623, 3623T, and 3624.

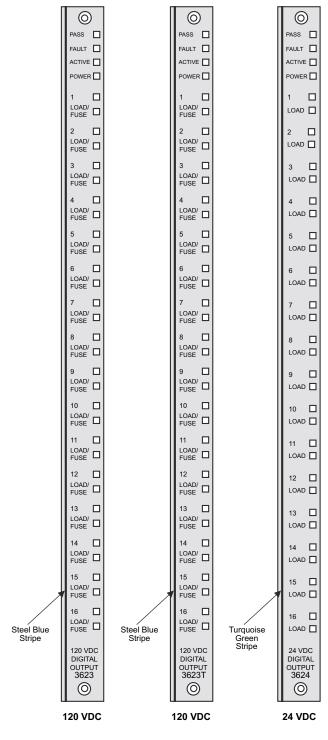


Figure 48 3623, 3623T, and 3624 Front Panels

Note The Model 3623, 3623T, and 3624 modules will not assert point LEDs for both primary and spare modules. Only the primary module will assert point LEDs.

Table 42 3623 and 3623T Supervised Digital Output Specifications (continued)

Feature	Specification
Inductive kick-back protection (reverse EMF)	Reverse diode on I/O module

- a. Power must be supplied to all points, including unused points on non-commoned panels.
- b. The maximum output toggle rate enables proper operation of I/O diagnostics and detection of all normally detectable faults. The minimum toggle rate provides fault coverage of normally undetectable faults within 10 percent of the calculated mean-time-between-faults (MTBF) for the module.
- c. OVD glitching cannot be disabled.

3624 Specifications

This table lists the specifications for Model 3624, which is a TMR Supervised Digital Output Module with a nominal voltage of 24 VDC.

Table 43 **3624 Supervised Digital Output Specifications**

Feature	Specification
Color code	Turquoise green
Number of output signals	16, commoned
Recommended voltage range	16-30 VDC
Maximum voltage	36 VDC
Logic power	< 10 watts
Current ratings, maximum	0.7 amps/point, 4.8 amps surge/10 ms
Minimum required load	30 mA
Leakage current to load	4 mA, maximum
Fuses (field termination)	Not required; output switches are self-protected against over-voltage, over-temperature, and over-current
Status indicator: On or Off state	1 per point
Status indicator: Module status	Pass, Fault, Active
Status indicator: Field alarma	Power, Load (1 per point)
Point isolation	1,500 VDC minimum
Short-circuit detection threshold in Off state ^b	< 10 $Ω$ typical, 5–22 $Ω$ worst-case
Output diagnostic fault coverage ^{c:}	
Maximum output toggle rate	Every 100 ms plus one scan
Minimum output toggle rate	Not required
Diagnostic glitch durationd	2 ms maximum, 500 μs typical