## 34952A multifunction module with 32-bit DIO, 2-channel D/A and totalizer

The multifunction module offers the flexibility you need for system control. The 34952A has four 8-bit digital I/O channels, a 100- kHz gated totalizer, and two ± 12 V analog outputs—all on a single earth-referenced module. The digital inputs and totalizer input may be included in a scan list. Alarm limits for the digital and totalizer inputs are evaluated continuously, capturing and logging alarm conditions even between scans. Connections can be made via standard 50-pin Dsub cables or detachable terminal block. The 34952T terminal block has a pinout for connection to an external Opto 22 board.

## Digital input/output characteristics Four 8-bits channels, 8 bits wide, input or output, non-isolated Vin(L) < 0.8 V (TTL) Vin(H) > 2.0 V (TTL) Vout(L) < 0.8 V @ lout = -400 mA per output Vout(H) > 2.4 V @ lout = 1 mA Vin(H) max < 42 V with external open drain pull-up Maskable pattern match or Alarm state change 4 ms (max) alarm sampling Speed 5 ms (typical) to 34980A Latency alarm output Read/write speed 95/s **Totalize input characteristics** 226 - 1 Max count Totalize input 100 kHz (max) rising or falling edge, programmable Signal level 1 Vp-p (min) 42 Vpk (max) Threshold 0 V or TTL TTL-Hi, TTL-Lo, or none Gate input Count reset Manual or read + reset Read speed 85 rds/s Analog output characteristics DAC 1, 2 ± 12 V, non-isolated 1 mV Resolution IOUT 10 mA max Settling time 1 ms to 0.01% of output Accuracy $\pm$ (% of output + mV) (0.25% + 20 mV) 1 year

± (0.015% + 1mV)/°C

Temp. coefficient

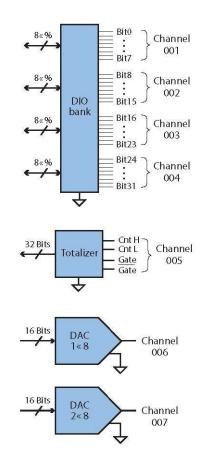


Figure 15. 34952A multifunction module