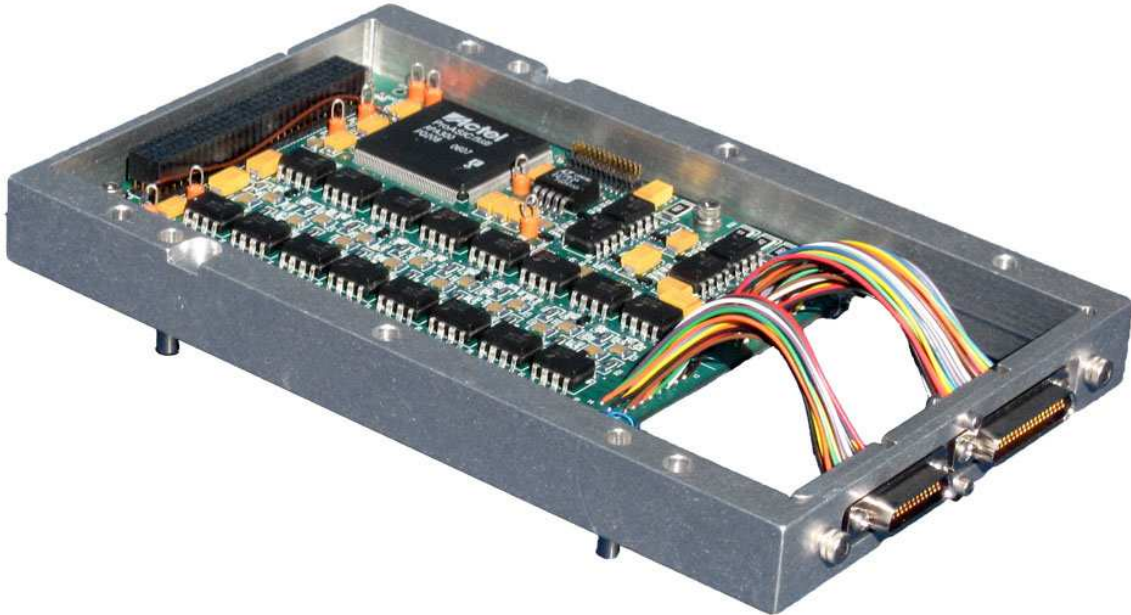


Radiation Hardened Valve/Relay Driver Board



Space Micro's Valve/Relay Driver Board is designed specifically for space applications requiring radiation protection and conductive cooling. Applications include propulsion and navigation controls in space, aerospace, and missiles. Special design attention has been paid to withstand the stresses in launch and long-life operation.

Radiation Hardened

- No SEL (>120 MeV/mg/cm²)
- No SEFI (>120 MeV/mg/cm²)
- No SEU (>120 MeV/mg/cm²)
- No SEGR (>60 MeV/mg/cm²)
- TID up to 100 krad (Si)

Designed for Space Applications

- Shock tested
- Conductive cooling
- Wedglock retainers

10 Solenoid Valve Drivers

- 1 A (2 A max) per driver
- 28V In/Out
- Power MOSFET drivers
- High + Low side switching
- Back-EMF protected

10 Relay Drivers

- 250mA
- 28V In/Out

SM-VRD-1000

10237 Flanders Court
San Diego, CA 92121

Phone: (858) 332-0700
Fax: (858) 332-0709
www.spacemicro.com
page 1



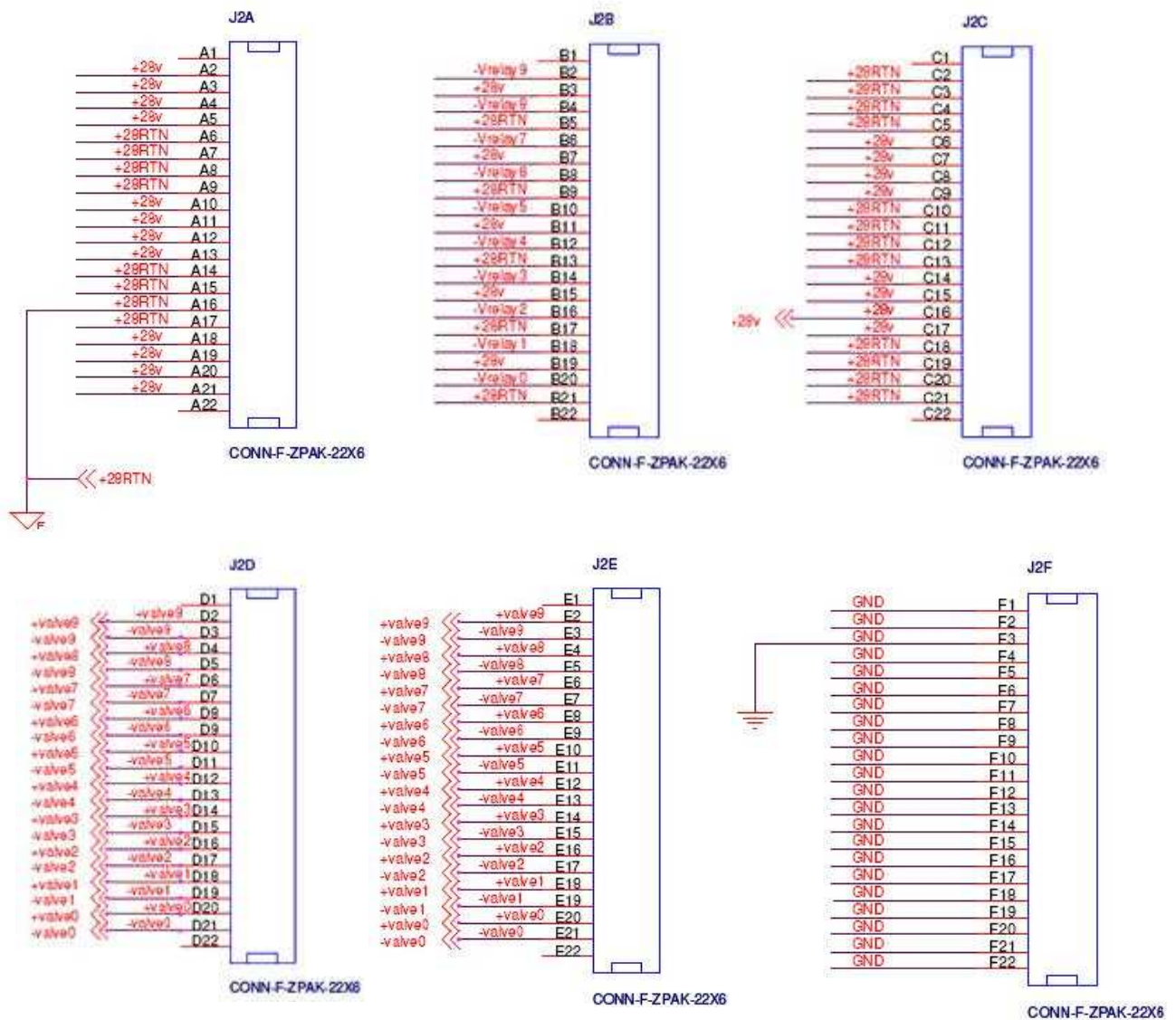
Radiation Hardened Valve/Relay Driver Board

Technical Specifications

Mechanical	3U cPCI (6U and other sizes optional)
Interface	32 bit, 33 MHz
Temperature range	0° C to +70° C (wider ranges available)

Switching Timing (Typical)	Valve	Relay
Turn-on delay	17 ns	11 ns
Rise time	86 ns	35 ns
Turf-off delay	79 ns	39 ns
Fall time	81 ns	35 ns

J-2 Connector Pin-outs



10237 Flanders Court
San Diego, CA 92121

Phone: (858) 332-0700
Fax: (858) 332-0709
www.spacemicro.com
page 2

