

## SDI VNODE Specifications and Pinout

### Videoframe P/N: VF0038

**Power:** VDC @ 1.1A. Max. Dissipation 6W

**Ethernet:** Physical: RJ-45 T-568B (NIC)  
Signaling: Auto-negotiating – IEEE 802.3u 100Base-TX, Full or Half Duplex; IEEE 802.3 10Base-T, Full or Half Duplex

**Digital Video (BNC connectors):** SMPTE 259M input with embedded audio. Active, re-clocked output with power fail relay bypass.

**GPIs:** 8 GPIs, TTL input with internal 4.7K pull-up to +3.3V. 5-volt tolerant, transient-protected.

**Relays:** 8 relays, closure to GND (Common), contacts rated at 0.5A, 30V.

**GND:** One GND is common among all GPI inputs and relays, as well as with the power input. The GPI interface supports a 6A maximum total return using all 3 GND pins on the 25-pin D.

**Rear Panel Indicators:** Power, CPU run, Ethernet link, Ethernet activity.

**Software:** Basic Operating System with a TCP (telnet) server for configuration, used with the Videoframe Configuration Application Windows program.

An SNMP V1/V2C agent is included for monitoring of MIB-2 host objects, control and monitoring of GPIs, and monitoring of audio and video alarms.

The SNMP agent allows the VNODE and its alarms to be monitored by a general-purpose network monitoring program (SNMP manager) such as HP OpenView™, Castle Rock SNMPc™, or Ipswitch WhatsUp™ Gold.

A server for the VTECS™ protocol is included, for the purpose of remote control and monitoring using either a VTECS™ Monitor Windows application (included), a VTECS™ control panel, or a customer integrated application.

Remotely-accessed configuration includes standalone relay action on alarms, and allows user-assigned names to be associated with GPI input SNMP traps.

**Physical Dimensions:** 1.0”H x 5.7”W x 3.5”D

**Weight:** 1.8 lbs. (including external power supply)

**Power Supply:** Single external 9VDC @ 1.1A

**Rack Mount Kit Options:** VO0016 1RU front rack mount kit, accommodates 3 units.  
VO0018 1RU rear rack mount kit, accommodates 3 units.

**Connector:** Unit has one DB25-F connector for GPI inputs and relay outputs. See Fig. 1 below for pinout.

**SDI VNODE PINOUT**

Function	Pin(s)
GND and Relay Common	1,6,14,shell
GPI 1	18
GPI 2	5
GPI 3	17
GPI 4	4
GPI 5	16
GPI 6	3
GPI 7	15
GPI 8	2
Relay 1	10
Relay 2	22
Relay 3	9
Relay 4	21
Relay 5	8
Relay 6	20
Relay 7	7
Relay 8	19
No Connect	25
No Connect	12
No Connect	24
No Connect	23
No Connect	10
No Connect	22

**Fig. 1: SDI VNODE 25-Pin D Pinout Rev. 1.0**