

GPI VNODE Specifications and Pinout

Videoframe P/N **VF0037-00**

Power: 9VDC @ 1.1A. Max. Dissipation 2.5W

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

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 37-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 as well as control and monitoring of GPIs.

The GPI VNODE works out-of-the-box with Leitch Navigator™, Miranda iControl™ and Thomson/Grass Valley NetCentral™.

The VNODE can also 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, for remote control and monitoring is included for use with the VTECS™ Monitor Window application (included), a VTECS™ control panel, or a customer integrated application.

Remotely-accessed configuration 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 Front Rackmount Kit – accommodates 3 units.
VO0018 Rear Rackmount Kit – accommodates 3 units.

Connector: Unit has one DB37-F connector for GPI inputs and relay outputs.
See Fig. 1 below for pinout.

PINOUT for GPI VNODE

Function	Pin(s)
GND and Relay Common	2,19,29, shell
GPI 1	10
GPI 2	28
GPI 3	9
GPI 4	27
GPI 5	8
GPI 6	26
GPI 7	7
GPI 8	25
GPI 9	6
GPI 10	24
GPI 11	5
GPI 12	23
GPI 13	4
GPI 14	22
GPI 15	3
GPI 16	21
Relay 1	37
Relay 2	18
Relay 3	36
Relay 4	17
Relay 5	35
Relay 6	16
Relay 7	34
Relay 8	15
Relay 9	33
Relay 10	14
Relay 11	32
Relay 12	13
Relay 13	31
Relay 14	12
Relay 15	30
Relay 16	11

Fig. 1: 16 x 16 GPI VNODE 37-Pin D Pinout