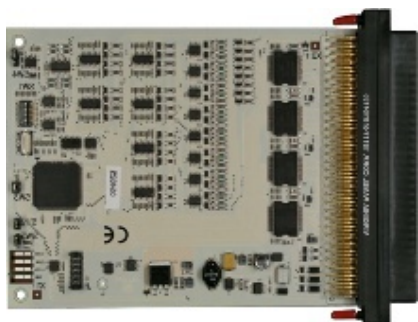


YAV90832

In/Outs Multifunction Board



Features

- > 16 Analog Inputs, 10 bit, 24V
- > 32 Digital Outputs, MOS, 4 groups of eight (independent power supply)
- > 4 Analog Outputs, 0..10Vdc
- > 4 PWM outputs
- > CAN bus controlled
- > Reliable VPC 90 series I/O connector

Applications

- > In-Out, Stimulus-response in testing
- > Relays and loads activation
- > Encoder emulation
- > Analog input and output

Overview

YAV90832 inputs and outputs are sharing the common of the 24Vdc power supply. This common might be connected to the DUTs common.

Analog inputs accept up to +30V voltages with an acquisition resolution of 10 bits +1. They are protected up to 50V.

Digital inputs are organized in groups of 8, conforming banks. The first bank has 16 inputs while second one has 8. Each bank has a terminal to set the trigger level. The board has two reference outputs (+2,5V and +5V) to be used as trigger level, in a direct manner or through a voltage divider.

Digital Outputs are organized in groups of 8. Each group has independent supply voltage pin. They can work from +11VDC to +45VDC, sourcing up to 600mA. Failure monitoring for each group is available. P6 port outputs can be used either as power digital outputs (from terminal 89 to terminal 96) or as modulated outputs: four analog (from 57 to 60) and four PWM (from 61 to 64). When modulated outputs are being used (analog or PWM), the logical status of the digital outputs will be a squared wave with its ON time proportional to the value of that modulated output. Digital inputs 21-23 and 22-24 can be set as incremental encoder inputs (two channel 90° quadrature, up to 1MHz).

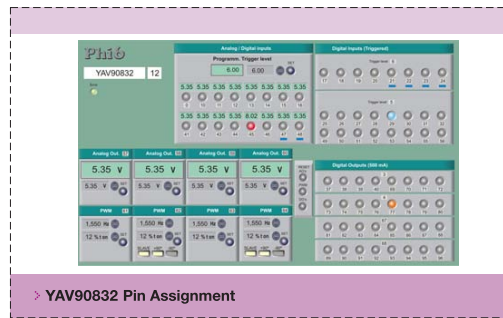
Specifications

> Analog, digital channels	N° of channels / Type	Voltage Range	Current	Max. Frequency
Digital Outputs	32 PNP	11..45 V	Max. 600 mA	
Digital Inputs	24 PNP	0,1 .. 32 V	< 1 mA	
Analog Outputs	4	0 .. 5V	Max. 5 mA	
Analog Inputs	16	0 .. 24 V	< 1 mA	
PWM Outputs	4	Hi = +5V	10 mA	1 MHz

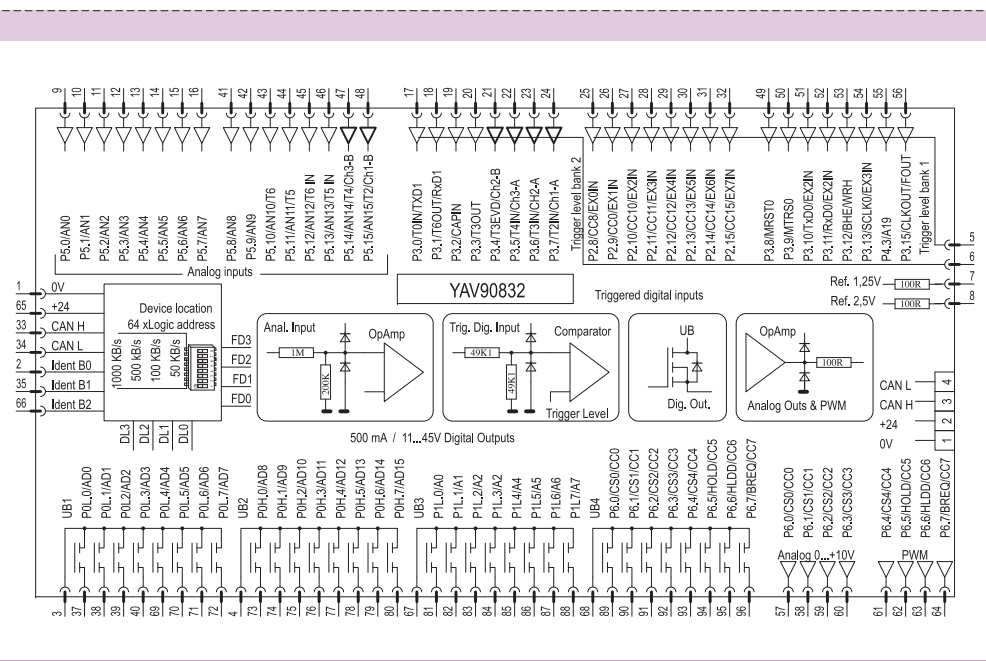
> Power supply
Operative voltage range 20..29VDC
Max. 24V current requirement 100mA

> Physical
I/O connector VPC TriPaddle,
96 Position, 510104135
5A
Max. current per VPC contact 2A
PCB tracks rated current 142x187

> Environment
Operating temperature 0 to 45 °C
Storage temperature -20 to 70 °C
Relative humidity 10 to 90% relative humidity, noncondensing



> YAV90832 Pin Assignment



> YAV90832 Software Virtual Panel