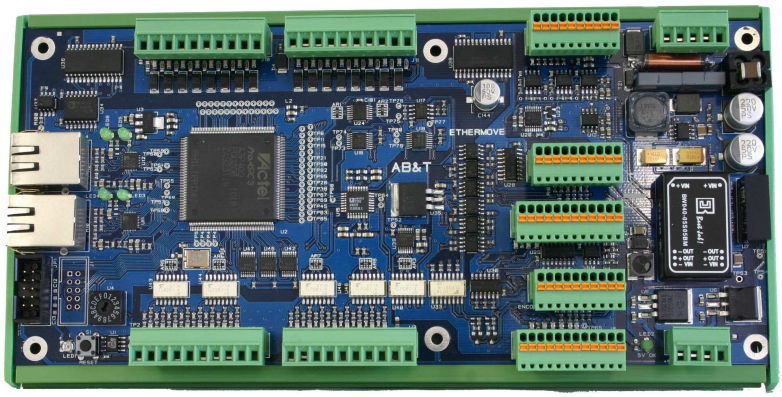
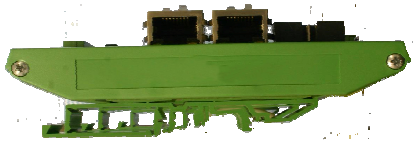
EtherMove

2CH Analog Axes + 2CH stepper motors
+ 16Input + 16Output + 2ADC + 2DAC

Features:

- 2-CH encoder counter
  - A/B phase
  - Z marker
  - 2.5Mhz any phase
- 2-CH 16 bit analog-output +-10Volt
- 2-CH DO 24V-100mA to enable Driver
- 2-CH DI 24V for Driver OK
- 2-CH DI 24V for Micro Zero
- 2-CH DI fast input for Latch Counter
- 2-CH 12 bit analog-output +- 10Volt
- 2-CH 12 bit analog-input 133KHz +-10Volt
- 2-CH DO 5V-20mA for pulse Stepper Motor
- 2-CH DO 5V-20 mA for direction Stepper Motor
- 2-CH DO 5V-20mA for enable Stepper Motor
- 16-CH DI 24V-100mA for General Output
- 16-CH DI 24V for General Input





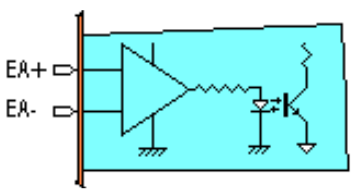
Introduction

The Etherbox is an high performance industrial 2 analog axes and 2 stepper motor controller 16Input 16Output

- 2-CH encoder counter
  - A/B phase
  - Z marker
  - 2.5Mhz any phase
- 2-CH 16 bit analog-output
- 2-CH DO 24V-100mA to enable Driver
- 2-CH DI 24V for Driver OK
- 2-CH DI 24V for Micro Zero
- 2-CH DI fast input for Latch Counter
- 2-CH 12 bit analog-output
- 2-CH 12 bit analog-input 133KHz
- 2-CH DO 5V-20mA for pulse Stepper Motor
- 2-CH DO 5V-20mA for direction Stepper Motor
- 2-CH DO 5V-20mA for enable Stepper Motor
- 16-CH DI 24V-100mA for General Output
- 16-CH DI 24V for General Input

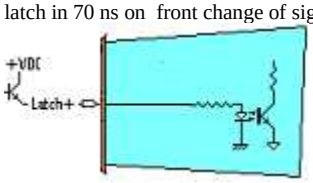
Encoder counter

2 counter 24 bit to read position with A/B phase,
any phase is un input differential signal to up 2.5Mhz , (10Mhz counter).
2 differential Z marker to homing positions



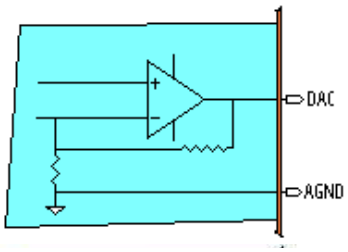
Latch position

2 digital 5VDC interrupt signals are connected to latch indipendent position, the position are latch in 70 ns on front change of signal



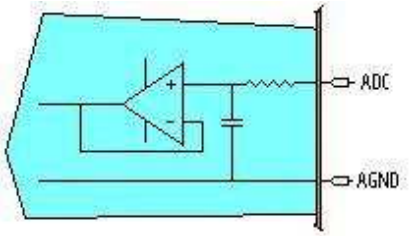
Analog Output

The Etherbox provides 2 16-bit + 2 12-bit Digital to Analog converter channels. The output voltage ranger from –10 V to +10 V. The Analog outputs are all single endend with common round AGND.



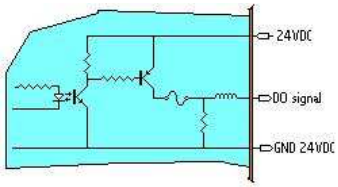
Analog input

The Etherbox provides 2 12-bit A/D converter chanels. The analog source is selectable for each chanel to be +10V DC to –10V DC



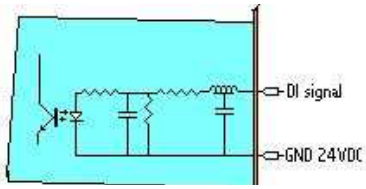
Digital Output

The Etherbox provides 2 + 16
The signals is indicate to use for :
2 Enable the analog driver
16 to connect general output



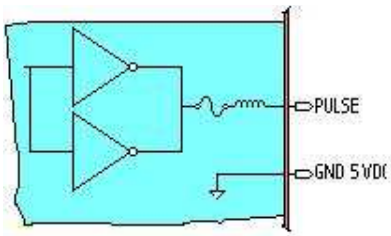
Digital Input

The Etherbox provides 4+16 digital input with 2500 V ms isolation .
The signals is indicate to use for :
2 to connect Driver Ok
2 to connect Zero Micro Switch.
16 to connect general input



Pulse Output

The Etherbox provides 2 pulse output chanel 5Vcc, the output frequency goes up 1MHz.
2 signal 5Vcc Direction stepper motor
2 signal 5Vcc Enble the stepper motor



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2CH Analog Axes + 2CH stepper motors
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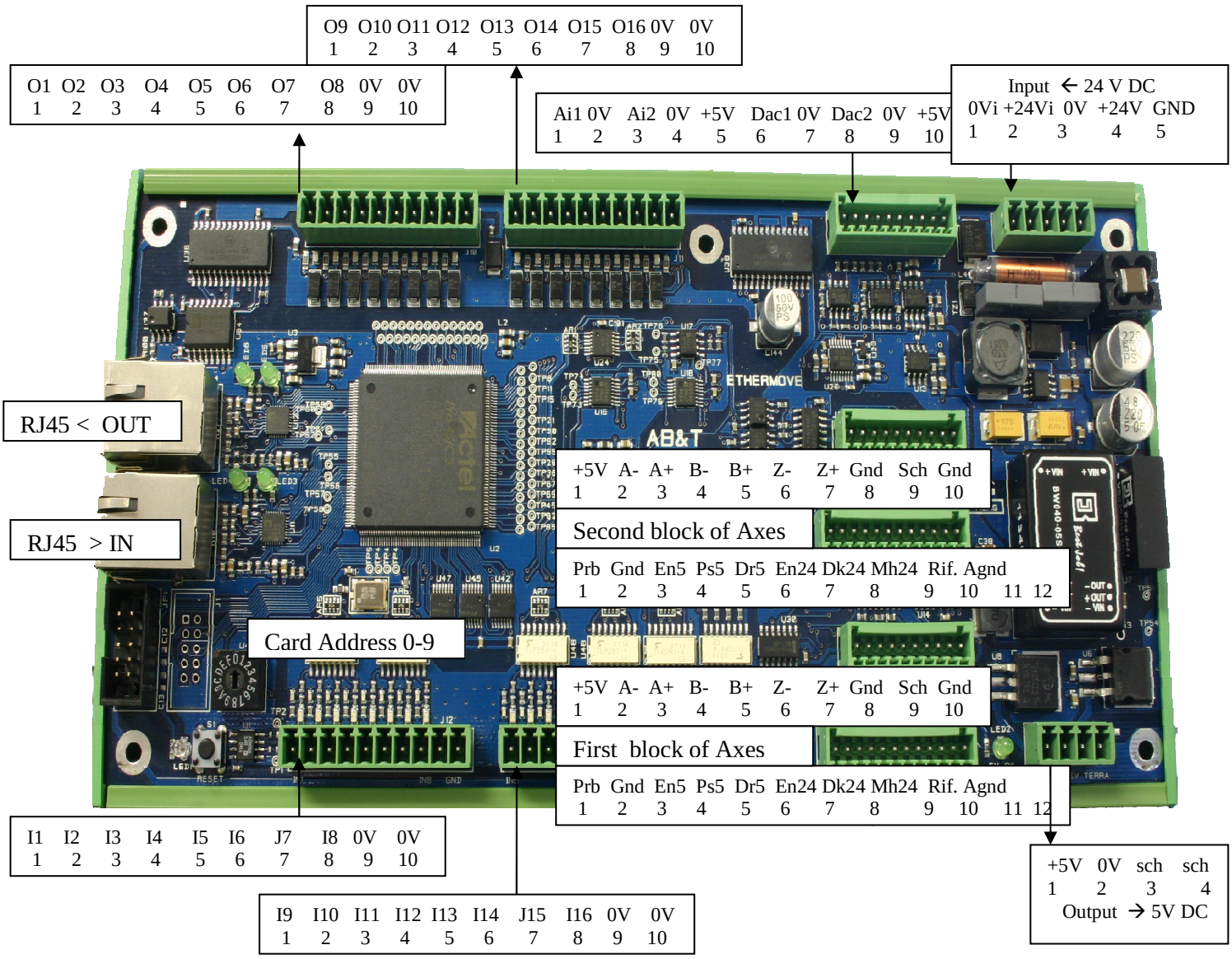

Specification:
Dimension 107- 170 mm without DIN enclosure
Operating Temperature: 0C –50C
Storage Temperature: -20C –80C
Humidity: 5- 85% non condensing

Power Consumption:
External power supply (input)
+24 V DC , +- 5%
Internal power supply (output)
+5 V DC , +- 5%, 200 mA max

Encoder Connector

1	+5Volt for power supply to Encoder output
2	A- differential signal
3	A+ differential signal
4	B- differential signal
5	B+ differential signal
6	Z- differential signal Marker
7	Z+ differential signal Marker
8	Gnd (0Volt) for power supply to Encoder output
9	Shield for cable for Encoder
10	Ground (0Volt) for frequency motor driver (Enable5V, Pulse 5V, Direction 5) output

Axes connector

1	Probe 5Volt input
2	Probe 0Volt input
3	Enable 5Volt for frequency motor drive
4	Pulse 5Volt for frequency motor drive
5	Direction 5Volt for frequency motor drive
6	Enable 24Volt output for motor drive standard mode
7	Driver OK 24 Volt input output for motor drive standard mode
8	Micro Home sensor 24Volt input output for motor drive standard mode
9	Reference +- 10Volt output for motor drive standard mode
10	Ananolg Ground for Reference signal +- 10Volt
11	Free
12	Free

Analogic connector

1	Analogic Input 1 +- 10Volt (12bit)
2	Ananolg Ground Input 1
3	Analogic Input 2 +- 10Volt (12bit)
4	Ananolg Ground Input 2
5	+5Volt output
6	Analogic Output 1 +- 10Volt (12bit)
7	Ananolg Ground Output 1
8	Analogic Ouput 2 +- 10Volt (12bit)
9	Ananolg Ground Output 2
10	+5Volt output