AP subsea: Data Control Solutions

Controller DMX (by ASK Engineering Ltd.)

AIO & DIO Data Multiplexing Controller (DMX)

Simple to use. Robust in operation

Application:

- vehicle control system (ROV, RC boat, AUV, drone)
- operator console (joysticks console)
- data acquisition subsystem

Working modes:

Computer - DMX

DMX - DMX (no PC required)

DMX - Computer - DMX

Input voltage: 24 VDC ±10%,
Power: 240 mA @ 24 VDC
Power In indication: green LED
Serial comm indication: red LED

Data refresh rate: 20 Hz on any port

Opto-isolated analog, digital and serial buses Independent ground lines for Digital, Analog,

Data and Power

Digital Input: 30 channels (TTL)
Digital Output: 30 channels (TTL)

Input voltage: Logic 0: 0V min, 0.8V max

Logic 1: 1.8V min, 3.3V max

Input current 1µA at 3.3V, -5µA at 0V

Output voltage: Logic 0: 0.0V min, 0.15V max

Logic 1: 3.3V max

Output current: Logic 0: 10mA max at 0.55V

Logic 1: 10mA max at 3.3V





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SPECIFICATION

A/D resolution: 16 bit

Analog Input (0-5V) single-ended: 16 channels
Analog Output (0-5V) single-ended: 16 channels

Input impedance: $5 G\Omega$

Output current: 2.5mA max per channel

Relative accuracy: ±8 LSB typical Nonlinearity: ±1.5 LSB, monotonic

Serial interface settings, RS-232: 38400/8/n/1

Serial (TTL): by request

Power In connector type: Molex 0022053021, pin 1 (V+), cable header Molex 0022013027
Serial port connector type: B3B-PH-K-S, cable header PHR-3

pin 1 - Gnd

pin 2 - Tx

pin 3 - Rx

Digital In/Out connector type: 2x raw, 40 contacts, 2 mm pitch, 2 mm raw spacing Analog In/Out connector type: 2x raw, 32 contacts, 2 mm pitch, 2 mm raw spacing

DMX board dimensions (W x L x H) PC-104

format, mm:

90 x 96 x 12 (other form-factor by request)

Operating temperature: -45 ÷ +75 °C

Mounting: 4x M3 screws





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