

FEATURES

- 96 OR 48 HIGH-SIDE POWER MOSFET OUTPUTS
- TRU-ISO™ I/O-TO-PC 3.75kVRMS OPTO-ISOLATED
- 5.5" × 5.75" BOARD MATES DIRECTLY TO USB-DIO-96-OEM
- 48-OUTPUT VERSION MATES DIRECTLY TO USB-DIO-48-OEM AND ETH-DIO-48-OEM
- INDUSTRIAL OPERATING TEMPERATURE (-25°C TO +85°C) STANDARD

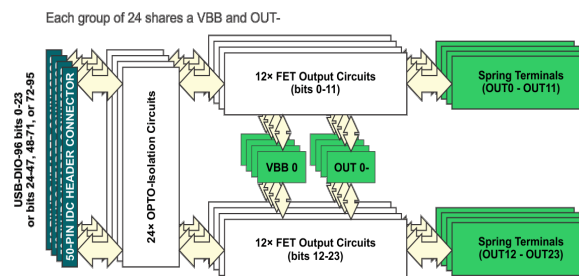
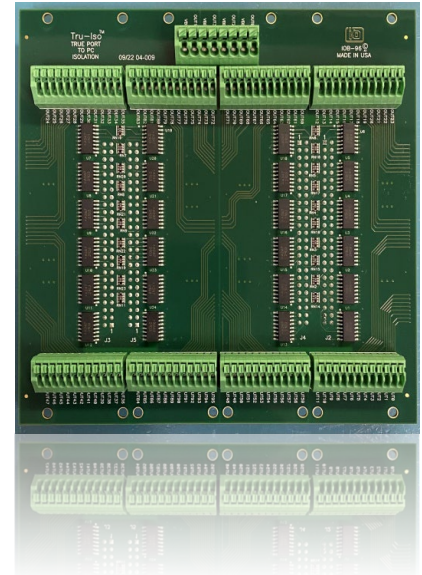
FUNCTIONAL DESCRIPTION

The IOB-96 and IOB-48 optically isolated FET output accessory board is designed to add wide voltage and flexible current output signaling to existing TTL/CMOS DIO signals in a compact high-density accessory.

Each 24-bit group has its own FET supply voltage (Vbb) and return terminal (OUT-) for flexible isolation and signal voltages.

This handy accessory board plugs directly on top of the USB-DIO-96-OEM, USB-DIO-48-OEM, and ETH-DIO-48-OEM boards.

These cards are well suited to complex environments, mitigating otherwise challenging ground-loops, common in electrically-noisy industrial or factory locations. Easy to use spring cage terminals included for each FET output for simplified wiring in the field.



SPECIAL ORDER

Please contact ACCES with your precise requirement. Examples of special orders would be conformal coating, custom product labeling, and more. We will work with you to provide *exactly* what is required.

SOFTWARE

No software is needed for this isolated FET accessory board.

SPECIFICATIONS

FET Outputs

Number	96 (or 48)
Type	High Side Power MOSFET Switch. Protected against short-circuit, over-temp, overvoltage, overload, reverse battery, ESD; drives resistive, inductive and capacitive loads.
Voltage Range	11-45VDC (customer supplied). One Vbb per 24 FETs
Current Rating	0.2A maximum, each FET
Turn On time	50 μ sec (typical)
Turn Off time	75 μ sec (typical)
Tru-Iso™ I/O-to-PC	Isolation: 3.75kVRms

Opto-isolator per IPC-22B 700V Isolation I/O-to-Computer on all signals

Environmental

Temperature	Operating	-25° to +85°C
	Storage	-55° to +85°C
Humidity	90% max RH, without condensation	
Power required	+5VDC @ 450mA typical with all FETs ON	

Physical

Size	Length	139.7mm (5.5")
	Width	146.05mm (5.75")
I/O connections	FET Outputs	Terminal Block. Phoenix 1989845; 20-24AWG
	Vbb & Rtn	Terminal Block. Phoenix 1985027; 16-24AWG
	Inputs	50-pin Female IDC headers (x4 for IOB-96, x2 for IOB-48) with OPTO/GORDOS pinout

ORDERING GUIDE

IOB-96	Isolated FET Output Accessory, 96-channels
IOB-48	Isolated FET Output Accessory, 48-channels

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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