MODELS IOB-96, IOB-48

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IOB-96

96 Isolated FET Outputs Data Sheet

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

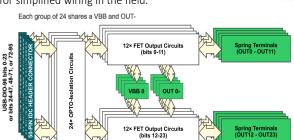
FUNCTIONAL DESCRIPTION

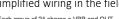
The IOB-96 and IOB-48 optically isolated FET output accessory board is designed to add wide voltage and flexible current output signaling to existing TTL/CMOS DIO signals in a compact highdensity accessory.

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 groundloops, 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)	
Туре	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 IP	C-22B 700V	Isolation I/O-to-Computer on all signals	
Environmental			
Temperature	Oper	rating -25° to +85°C	
	Sto	orage -55° to +85°C	
Humidity	90%	max RH, without condensation	
Power required	+5V	DC @ 450mA typical with all FETs ON	
Physical			
Size	Length	139.7mm (5.5")	
3126	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 (×4 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

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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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