



STW Technic, LP
Mobile Controllers and
Measurement Technologies

IQ-SBLOCK



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This block is designed for the mobile controls market as it uses J1939 for communication. The family will include Input, Output and Combination blocks, each with amperages up to 52A. These blocks reduce your wiring efforts by minimizing the need for spider web harnesses, while at the same time allowing for shorter cable runs to each device. Each I/O point on the block has LED indicators along with short circuit and over current protection making troubleshooting a breeze.

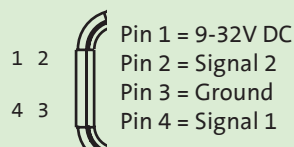


| AT A GLANCE

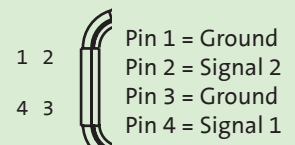
- 6 Versions
 - DO16 (PWM)
 - DO16 (PWMI Paired)
 - DI16
 - DI8/DO8
 - CAN Splitter
 - Passive
- J1939 Communication
- Controller Option
- Configurable inputs allow for analog or digital
- Amperage
 - Up to 52A per Module
 - Up to 10A per Output

| PIN ASSIGNMENTS

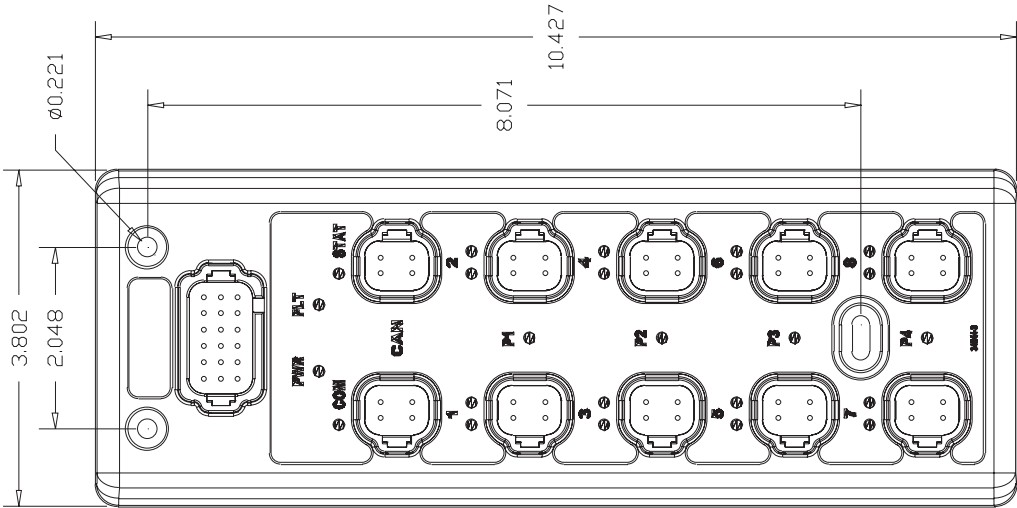
| INPUT



| OUTPUT

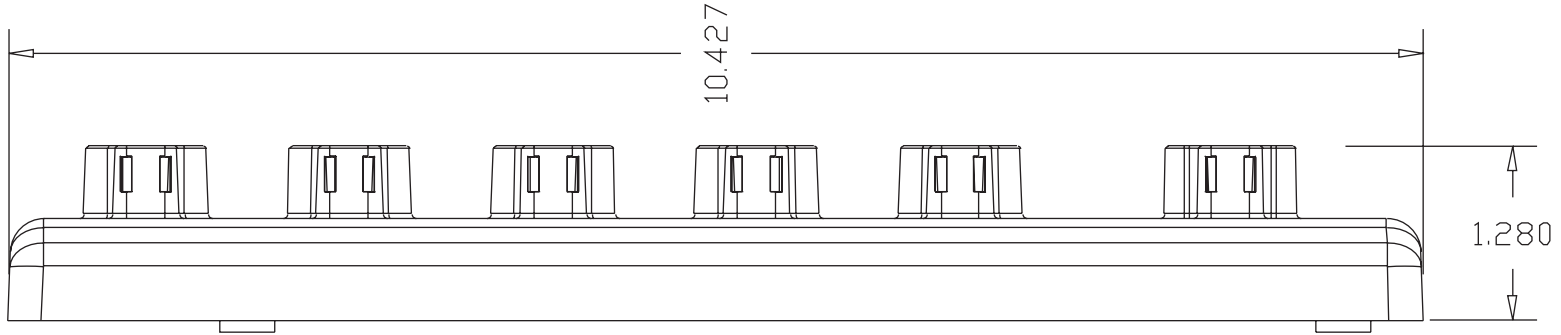


Top View



Description	Combo Block	Input Block
Dimension	3.82" x 10.427"	3.82" x 10.427"
Installation	(3) M5 x 1 screws	(3) M5 x 1 screws
Communication		
Voltage Range	8-32vdc	8-32vdc
Operating/Storage Temp	(-40 to 85°C)	(-40 to 85°C)
Protection	IP67	IP67
# of Ports		
Total # of I/O		
Total # of Inputs	8	16
# of Digital	4 to 8*	8 to 16*
# of Configurable Inputs	4 digital, 4 analog	8 digital, 8 analog
Digital Input Configurations	positive, ground, (2) frequency	positive, ground, (2) frequency
Analog Input Configurations	0-10vdc, 0-5vdc, 4-20ma, positive digital	0-10vdc, 0-5vdc, 4-20ma, positive digital
Analog Resolution	12 bit, 1% Full scale accuracy	12 bit, 1% Full scale accuracy
Input Diagnostics	short circuit	short circuit
Total # of Outputs	8	n/a
# of Configurable Outputs	8	n/a
# of Paired Outputs	n/a	n/a
Output Configurations	digital (+), PWM, PWM(I), ratiometric analog	n/a
PWM Frequency	100-1200hz	n/a
Output Diagnostics	short circuit and overcurrent	n/a
Switching Current	4 amps	n/a
Total Output Current	26 amps	n/a
J1939 Port		1=+vdc (
Node ID	0-31	0-31
Baud Rate		
LEDs		(4)blue
Ports 1-4	1=gnd, 2=sig 2, 3=gnd, 4=sig 1	n/a
Ports 4-8	1=+vdc, 2=sig 2, 3=gnd, 4=sig 1 (config)	n/a
Ports 1-8		1=+vdc, 2=sig 2, 3=gnd, 4=sig 1 (config)

Side View

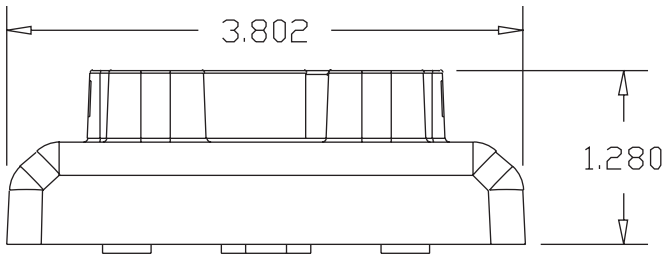


Output Block		Output Block w/PWM (I)	
3.82" x 10.427"		3.82" x 10.427"	
(3) M5 x 1 screws		(3) M5 x 1 screws	
2 non-isolated J1939 ports			
8-32vdc		8-32vdc	
(-40 to 85°C)		(-40 to 85°C)	
IP67		IP67	
8			
16			
n/a		n/a	
n/a		n/a	
n/a		n/a	
n/a		n/a	
n/a		n/a	
n/a		n/a	
n/a		n/a	
n/a		n/a	
16		16	
16		16	
n/a		12	
digital (+), PWM, ratiometric analog		digital (+), PWM, PWM(I), ratiometric analog	
100-1200hz		100-1200hz	
short circuit and overcurrent		short circuit and overcurrent	
(12) 4 amps, (4) 10 amps		(2) 4 amps, (2) 10 amps, (6) 4 amps paired	
52 amps		52 amps	
module pwr), 2=CAN L, 3=gnd, 4=CANH			
0-15		0-31	
250 Kbits/s, 500 Kbits/s			
(PWR), (2) red CAN, (16) yellow status			
n/a		(PAIRED) 1=+vdc, 2=sig 2, 3=gnd, 4=sig 1	
n/a		any of the 3	
1=gnd, 2=sig 2, 3=gnd, 4=sig 1 (config)		any of the 3	



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End View



IQ-SBLOCK

CAN Splitter	Passive	Description
3.82" x 10.427"	3.82" x 10.427"	Dimension
(3) M5 x 1 screws	(3) M5 x 1 screws	Installation
10 non-isolated J1939 ports	n/a	Communication
8-32vdc	8-32vdc	Voltage Range
(-40 to 85°C)	(-40 to 85°C)	Operating/Storage Temp
IP67	IP67	Protection
10	8	# of Ports
n/a	16	Total # of I/O
n/a	n/a	Total # of Inputs
n/a	n/a	# of Digital
n/a	n/a	# of Configurable Inputs
n/a	n/a	Digital Input Configurations
n/a	n/a	Analog Input Configurations
n/a	n/a	Analog Resolution
n/a	n/a	Input Diagnostics
n/a	n/a	Total # of Outputs
n/a	n/a	# of Configurable Outputs
n/a	n/a	# of Paired Outputs
n/a	n/a	Output Configurations
n/a	n/a	PWM Frequency
n/a	n/a	Output Diagnostics
n/a	13 amps per pin	Switching Current
n/a	13 amps	Total Output Current
1=+vdc (module pwr), 2=CAN L, 3=gnd, 4=CANH	n/a	J1939 Port
n/a	n/a	Node ID
	n/a	Baud Rate
2 Red - CAN	16 Yellow - Status	LEDs
n/a	n/a	Ports 1-4
n/a	n/a	Ports 4-8
n/a	1=+vdc, 2=sig 2, 3=gnd, 4=sig 1	Ports 1-8



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