

ECU – ELECTRONIC CONTROL UNITS

HVAC + R

STANDARD

CABIN / MUX

PREMIUM



WIDE



FLEX



COMPACT



MAIN FUNCTIONS

The Electronic Control Unit (ECU) modules are systems that interface with the application's I/Os (inputs and outputs). Globus ECUs present high level of reliability and add modularity and safety, replacing relays and fuses with 100% electronic components.

They interact with human-machine interfaces, such as panels, displays, sensors, and other peripherals, depending on the client's application needs.

CHARACTERISTICS

- Customizable software
- Data Logger
- Configurable I/Os
- CAN Bus Interface
- LIN Interface
- One wire interface
- USB Interface
(Not recommended for new projects)

CONFIGURATION OPTIONS

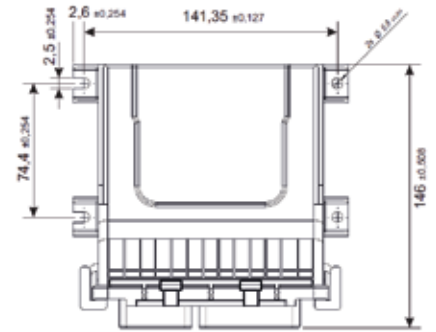
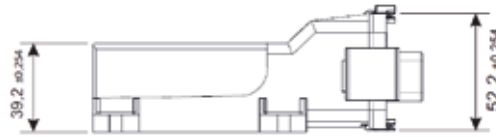
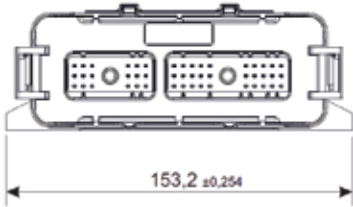
INPUT: Analogs and Digitals

OUTPUT: Analog, digital positive, digital negative, PWM and Bridge H

AVAILABLE ENERGY



ECU PREMIUM



Approximated weight: 490g

CONNECTORS



MODICE CINCH - 18 WAYS TO CABLE
Part Number: 581-01-18-023
TERMINAL:
Manufacturer: MODICE CINCH
PN: 425-00-00-872



MODICE CINCH - 30 WAYS TO CABLE
Part Number: 581-01-18-029
CAVITY PLUG SEAL:
Manufacturer: MODICE CINCH
PN: 581-00-00-011

TECHNICAL DATA

OPERATING VOLTAGE	24 VDC
VOLTAGE RANGE	18 VDC to 30 VDC
MAXIMUM VOLTAGE	32 VDC during 5 mins.
OUTPUT MAXIMUM CURRENT	500mA
OUTPUT SHORT-CIRCUIT	Protected*
REVERSE POLARITY	Protected*
OPERATING TEMPERATURE	-40°C to +85°C / -40°F to +185°F
STORAGE TEMPERATURE	-40°C to +85°C / -40°F to +185°F
TEMPERATURE SENSOR	NTC
PROTECTION DEGREE	IP68K
COMMUNICATION	CAN Bus / LIN
MAXIMUM CURRENT CONSUMPTION	17mA **
STANDBY CONSUMPTION	**

* According to product configuration. ** Consumption may vary according to customer specifications.
We keep the right to update or change information regarding products without prior notice.

FUNCTIONS UNDER REQUEST



WI-FI*



BLUETOOTH*



CELL PHONE
INTERFACE**



CAN BUS



REMOTE I/O
NETWORK



DATA
LOGGER*

*Through Globus Way module. **Through 3G/4G module.



ECU PREMIUM

PRODUCT CONFIGURATIONS

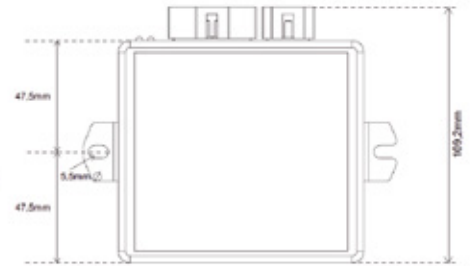
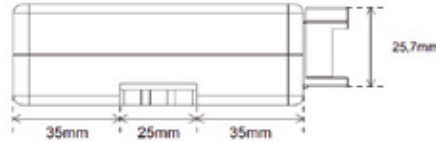
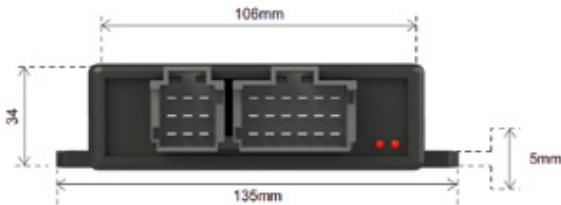
Choose the best options for your system

PIN CN1	ECU PREMIUM	POSSIBLE CONFIGURATIONS HARDWARE 1	
1	DIGITAL INPUT	OR	--
2	DIGITAL INPUT	OR	--
3	DIGITAL INPUT	OR	--
4	DIGITAL INPUT	OR	--
5	DIGITAL INPUT	OR	--
6	DIGITAL INPUT	OR	--
7	PWM OUTPUT	OR	--
8	DIGITAL INPUT	OR	DIGITAL OUTPUT POSITIVE 0.5A
9	PWM OUTPUT	OR	--
10	DIGITAL OUTPUT POSITIVE 0.5A	OR	--
11	DIGITAL OUTPUT POSITIVE 0.5A	OR	--
12	PWM OUTPUT	OR	--
13	DIGITAL OUTPUT POSITIVE 0.5A	OR	--
14	GND	OR	--
15	DIGITAL OUTPUT POSITIVE 0.5A 12V	OR	--
16	DIGITAL OUTPUT POSITIVE 0.5A	OR	--
17	GND	OR	--
18	DIGITAL OUTPUT POSITIVE 0.5A 12V	OR	--
PIN CN2			
1	LIN 2	OR	--
2	CAN2 L	OR	--
3	CAN2 H	OR	--
4	LIN 1	OR	--
5	CAN1 L	OR	--
6	CAN1 H	OR	--
7	ANALOG INPUT	OR	DIGITAL INPUT
8	TRANSDUCER POWER SUPPLY GND	OR	--
9	TRANSDUCER POWER SUPPLY 5V	OR	--
10	GND	OR	--
11	GND	OR	--
12	ANALOG INPUT	OR	DIGITAL INPUT
13	ANALOG INPUT	OR	DIGITAL INPUT
14	ANALOG INPUT	OR	DIGITAL INPUT
15	ANALOG INPUT	OR	DIGITAL INPUT
16	ANALOG INPUT	OR	DIGITAL INPUT
17	ANALOG INPUT	OR	DIGITAL INPUT
18	ANALOG INPUT	OR	DIGITAL INPUT
19	GND	OR	--
20	ANALOG INPUT	OR	--
21	GND	OR	--
22	ANALOG INPUT	OR	DIGITAL INPUT
23	DIGITAL INPUT	OR	--
24	ANALOG INPUT	OR	DIGITAL INPUT
25	GND	OR	--
26	DIGITAL INPUT	OR	--
27	GND	OR	--
28	POWER SUPPLY +VBAT	OR	--
29	POWER SUPPLY -VBAT	OR	--
30	POWER SUPPLY 12V OUT	OR	--



ECU

WIDE



Approximated weight: 177g

CONNECTORS



MCP AMP HOUSING
9 CABLE PATHS
Part Number: 8 - 968971 - 1



MCP AMP HOUSING
18 CABLE PATHS
Part Number: 8 - 968974 - 1

TERMINAL
Manufacturer: MCP AMP
PN: 1 - 968851 - 1

TECHNICAL DATA

OPERATING VOLTAGE	12 VDC / 24 VDC
VOLTAGE RANGE	10 VDC to 30 VDC
MAXIMUM VOLTAGE	32 VDC during 5 mins.
OUTPUT MAXIMUM CURRENT	10A / 500mA / 5A
OUTPUT SHORT-CIRCUIT	Protected*
REVERSE POLARITY	Protected*
OPERATING TEMPERATURE	-40°C to +85° / - 40°F to +185°F
STORAGE TEMPERATURE	-40°C to +85° / - 40°F to +185°F
TEMPERATURE SENSOR	NTC
PROTECTION DEGREE	IP 30
COMMUNICATION	CAN Bus / One Wire
MAXIMUM CURRENT CONSUMPTION	36mA @ 12 VDC / 41mA @ 24 VDC **
STANDBY CONSUMPTION	**

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FUNCTIONS UNDER REQUEST



WI-FI*



BLUETOOTH*



CELL PHONE
INTERFACE**



CAN BUS



REMOTE I/O
NETWORK



DATA
LOGGER*

*Through Globus Way module. **Through 3G/4G module



ECU

WIDE PRODUCT CONFIGURATIONS

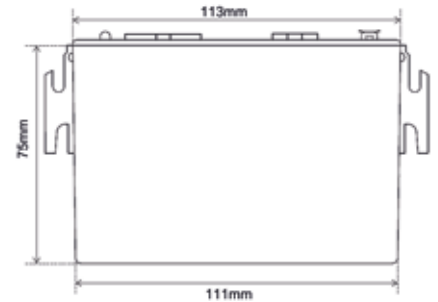
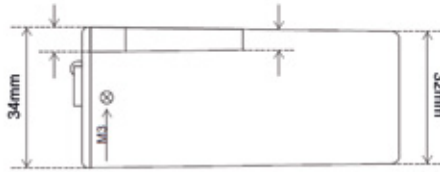
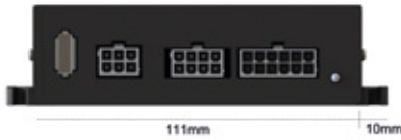
Choose the best options for your system

PIN CN1	ECU WIDE POSSIBLE CONFIGURATIONS HARDWARE 1			
1	ANALOG INPUT	OR		DIGITAL INPUT
2	GND	OR		--
3	DIGITAL INPUT	OR		--
4	ANALOG INPUT	OR		DIGITAL INPUT
5	GND	OR		--
6	ANALOG INPUT	OR		DIGITAL INPUT
7	ANALOG INPUT	OR		DIGITAL INPUT
8	GND	OR		--
9	ANALOG INPUT	OR		DIGITAL INPUT
PIN CN2				
1	POWER SUPPLY			--
2	GND			--
3	POWER SUPPLY			--
4	POWER SUPPLY			--
5	GND			--
6	POWER SUPPLY			--
7	DIGITAL OUTPUT POSITIVE 10A			--
8	* THE SAME OUTPUT OF PIN 7			--
9	--			--
10	DIGITAL OUTPUT POSITIVE 10A			PWM OUTPUT 5A
11	DIGITAL OUTPUT POSITIVE 0,5A			--
12	--			--
13	DIGITAL OUTPUT POSITIVE 5A			PWM OUTPUT 5A
14	DIGITAL OUTPUT POSITIVE 0,5A			--
15	CAN H			--
16	DIGITAL OUTPUT POSITIVE 5A			--
17	DIGITAL OUTPUT POSITIVE 5A			--
18	CAN L			--

PIN CN1	ECU WIDE POSSIBLE CONFIGURATIONS HARDWARE 2					
1	POWER SUPPLY	OR	--	OR	--	--
2	GND	OR	--	OR	--	--
3	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	--
4	DIGITAL INPUT	OR	--	OR	--	--
5	GND	OR	--	OR	--	--
6	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	--
7	GND	OR	--	OR	--	--
8	GND	OR	--	OR	--	--
9	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	--
PIN CN2						
1	DIGITAL OUTPUT NEGATIVE 0.5A		PWM OUTPUT		--	--
2	DIGITAL OUTPUT NEGATIVE 0.5A		PWM OUTPUT		--	--
3	DIGITAL OUTPUT NEGATIVE 0.5A		PWM OUTPUT		--	--
4	DIGITAL OUTPUT POSITIVE 3A		--		--	--
5	DIGITAL OUTPUT NEGATIVE 0.5A		--		--	--
6	DIGITAL OUTPUT NEGATIVE 0.5A		--		--	--
7	DIGITAL OUTPUT NEGATIVE 0.5A		DIGITAL OUTPUT POSITIVE 0.5A		BRIDGE H1	--
8	DIGITAL OUTPUT NEGATIVE 0.5A		DIGITAL OUTPUT POSITIVE 0.5A		DIGITAL OUTPUT POSITIVE 3A	BRIDGE H2
9	TRANSDUCER POWER SUPPLY		--		--	--
10	DIGITAL OUTPUT NEGATIVE 0.5A		DIGITAL OUTPUT POSITIVE 0.5A		DIGITAL OUTPUT POSITIVE 3A	BRIDGE H1
11	DIGITAL OUTPUT NEGATIVE 0.5A		DIGITAL OUTPUT POSITIVE 0.5A		DIGITAL OUTPUT POSITIVE 3A	BRIDGE H2
12	DIGITAL INPUT		ANALOG INPUT		--	--
13	CAN H		ONE WIRE		--	--
14	DIGITAL INPUT		ANALOG INPUT		--	--
15	DIGITAL INPUT		ANALOG INPUT		--	--
16	CAN L		--		--	--
17	DIGITAL INPUT		ANALOG INPUT		--	--
18	GND		--		--	--



ECU FLEX



Approximated weight: 132g

CONNECTORS



MINI-FIT MOLEX 6 VIAS
Part Number: 4202P0612T1



MINI-FIT MOLEX 8 VIAS
Part Number: 39-01-2080



MINI-FIT MOLEX 10 VIAS
Part Number: 39-01-2100



MINI-FIT MOLEX 12 VIAS
Part Number: 39-01-2120



MINI-FIT MOLEX 16 VIAS
Part Number: 39-01-2160

TERMINAL MINI-FIT
Fabricante: MOLEX
PN: 39-00-0038

TECHNICAL DATA

OPERATING VOLTAGE	12 VDC to 24 VDC
VOLTAGE RANGE	10 VDC to 30 VDC
MAXIMUM VOLTAGE	32 VDC during 5 mins.
OUTPUT MAXIMUM CURRENT	500mA
OUTPUT SHORT-CIRCUIT	Protected*
REVERSE POLARITY	Protected*
OPERATING TEMPERATURE	-40°C to +85° / - 40°F to +185°F
STORAGE TEMPERATURE	-40°C to +85° / - 40°F to +185°F
TEMPERATURE SENSOR	NTC
PROTECTION DEGREE	IP 30
COMMUNICATION	CAN Bus / One Wire / RS-485
MAXIMUM CURRENT CONSUMPTION	40mA @ 12 VDC / 60mA @ 24 VDC **
STANDBY CONSUMPTION	**

* According to product configuration. ** Consumption may vary according to customer specifications.
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FUNCTIONS UNDER REQUEST



WI-FI*



BLUETOOTH*



CELL PHONE
INTERFACE**



CAN BUS



REMOTE I/O
NETWORK



DATA
LOGGER*



ECU

FLEX

PRODUCT CONFIGURATIONS

Choose the best options for your system

PIN CN1	ECU FLEX POSSIBLE CONFIGURATIONS HARDWARE 1				
1	CAN L	OR	--	OR	--
2	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	BRIDGE H1
3	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	BRIDGE H1
4	CAN H	OR	--	OR	--
5	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
6	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
PIN CN2					
1	ANALOG OUTPUT		--		--
2	GND ANALOG OUTPUT		--		--
3	DIGITAL OUTPUT NEGATIVE 0.5A	DIGITAL OUTPUT POSITIVE 0.5A		BRIDGE H2	
4	--		--		--
5	ANALOG INPUT		DIGITAL INPUT		--
6	ANALOG OUTPUT		--		--
7	GND ANALOG OUTPUT		--		--
8	DIGITAL OUTPUT NEGATIVE 0.5A	DIGITAL OUTPUT POSITIVE 0.5A		BRIDGE H2	
9	TRANSDUCER POWER SUPPLY		--		--
10	GND		--		--
PIN CN3					
1	ANALOG INPUT		DIGITAL INPUT		--
2	GND		--		--
3	DIGITAL INPUT		--		--
4	DIGITAL INPUT		--		--
5	ONE WIRE		--		--
6	GND		--		--
7	ANALOG INPUT		DIGITAL INPUT		--
8	GND		--		--
9	DIGITAL INPUT		--		--
10	DIGITAL INPUT		--		--
11	POWER SUPPLY		--		--
12	POWER SUPPLY		--		--



ECU

FLEX

PRODUCT CONFIGURATIONS

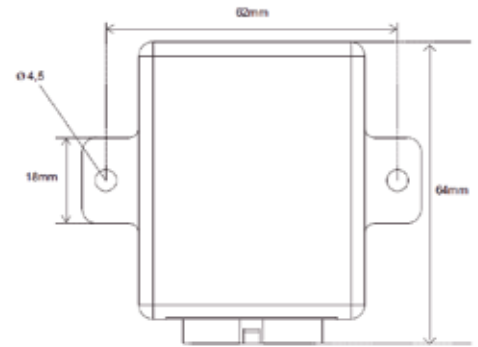
Choose the best options for your system

PIN CN1	ECU FLEX POSSIBLE CONFIGURATIONS HARDWARE 2						
1	TRANSDUCER POWER SUPPLY 5V	OR	--	OR	--	OR	--
2	POWER SUPPLY	OR	--	OR	--	OR	--
3	CAN L	OR	--	OR	--	OR	--
4	CAN H	OR	--	OR	--	OR	--
5	GND	OR	--	OR	--	OR	--
6	RS-485 D+	OR	--	OR	--	OR	--
7	RS-485 D-	OR	--	OR	--	OR	--
8	ONE WIRE	OR	ANALOG INPUT	OR	DIGITAL INPUT	OR	--
PIN CN2							
1	GND	--	--	--	--	--	--
2	DIGITAL OUTPUT NEGATIVE 0.5A	DIGITAL OUTPUT POSITIVE 0.5A	BRIDGE H1	PWM OUTPUT			
3	DIGITAL OUTPUT NEGATIVE 0.5A	DIGITAL OUTPUT POSITIVE 0.5A	BRIDGE H2	PWM OUTPUT			
4	DIGITAL OUTPUT NEGATIVE 0.5A	PWM OUTPUT	--	--			
5	DIGITAL OUTPUT NEGATIVE 0.5A	PWM OUTPUT	--	--			
6	DIGITAL OUTPUT NEGATIVE 0.5A	PWM OUTPUT	--	--			
7	GND	--	--	--			
8	DIGITAL OUTPUT NEGATIVE 0.5A	DIGITAL OUTPUT POSITIVE 0.5A	BRIDGE H1	PWM OUTPUT			
9	DIGITAL OUTPUT NEGATIVE 0.5A	DIGITAL OUTPUT POSITIVE 0.5A	BRIDGE H2	PWM OUTPUT			
10	DIGITAL OUTPUT NEGATIVE 0.5A	PWM OUTPUT	--	--			
11	DIGITAL OUTPUT NEGATIVE 0.5A	DIGITAL OUTPUT POSITIVE 0.5A	PWM OUTPUT	--			
12	DIGITAL OUTPUT NEGATIVE 0.5A	DIGITAL OUTPUT POSITIVE 0.5A	PWM OUTPUT	--			
PIN CN3							
1	ANALOG OUTPUT - 50MA	--	--	--	--	--	--
2	GND	--	--	--	--	--	--
3	ANALOG INPUT	DIGITAL INPUT	--	--	--	--	--
4	ANALOG INPUT	DIGITAL INPUT	--	--	--	--	--
5	ANALOG INPUT	DIGITAL INPUT	--	--	--	--	--
6	ANALOG INPUT	DIGITAL INPUT	--	--	--	--	--
7	ANALOG INPUT	DIGITAL INPUT	--	--	--	--	--
8	GND	--	--	--	--	--	--
9	ANALOG OUTPUT - 50MA	--	--	--	--	--	--
10	ANALOG INPUT	DIGITAL INPUT	--	--	--	--	--
11	ANALOG INPUT	DIGITAL INPUT	--	--	--	--	--
12	ANALOG INPUT	DIGITAL INPUT	--	--	--	--	--
13	ANALOG INPUT	DIGITAL INPUT	--	--	--	--	--
14	ANALOG INPUT	DIGITAL INPUT	--	--	--	--	--
15	ANALOG INPUT	DIGITAL INPUT	--	--	--	--	--
16	GND	--	--	--	--	--	--



ECU

COMPACT



Approximated weight: 47g

CONNECTORS



MINI-FIT MOLEX 12 VIAS
Part Number: 39-01-2120

TERMINAL MINI-FIT
Manufacturer: MOLEX
PN: 39-00-0038

TECHNICAL DATA

OPERATING VOLTAGE	12 VDC / 24 VDC
VOLTAGE RANGE	10 VDC to 30 VDC
MAXIMUM VOLTAGE	32 VDC during 5 mins
OUTPUT MAXIMUM CURRENT	500mA
OUTPUT SHORT-CIRCUIT	Protected*
REVERSE POLARITY	Protected*
OPERATING TEMPERATURE	-40°C to +85° / - 40°F to +185°F
STORAGE TEMPERATURE	-40°C to +85° / - 40°F to +185°F
TEMPERATURE SENSOR	NTC
PROTECTION DEGREE	IP 30
COMMUNICATION	CAN Bus / One Wire
MAXIMUM CURRENT CONSUMPTION	15mA @ 12 VDC / 30mA @ 24 VDC **
STANDBY CONSUMPTION	**

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FUNCTIONS UNDER REQUEST



WI-FI*



BLUETOOTH*



CELL PHONE
INTERFACE**



CAN BUS



REMOTE I/O
NETWORK



DATA
LOGGER*



*Through Globus Way module. **Through 3G/4G module.

ECU

COMPACT

PRODUCT CONFIGURATIONS

Choose the best options for your system

PIN	ECU COMPACT POSSIBLE CONFIGURATIONS HARDWARE 1				
1	ANALOG INPUT	OR	DIGITAL INPUT	OR	--
2	ANALOG INPUT	OR	DIGITAL INPUT	OR	--
3	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
4	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
5	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	BRIDGE H
6	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	BRIDGE H
7	ANALOG INPUT	OR	DIGITAL INPUT	OR	--
8	ANALOG INPUT	OR	DIGITAL INPUT	OR	DIGITAL OUTPUT POSITIVE 0.5A
9	DIGITAL OUTPUT NEGATIVE 0.5A	OR	GND (SENSOR)	OR	--
10	ONE WIRE	OR	--	OR	--
11	GND	OR	--	OR	--
12	POWER SUPPLY	OR	--	OR	--

PIN	ECU COMPACT POSSIBLE CONFIGURATIONS HARDWARE 2				
1	DIGITAL OUTPUT POSITIVE 0.5A	OR	--	--	--
2	DIGITAL OUTPUT POSITIVE 0.5A	OR	--	--	--
3	DIGITAL OUTPUT POSITIVE 0.5A	OR	--	--	--
4	DIGITAL OUTPUT POSITIVE 0.5A	OR	--	--	--
5	DIGITAL OUTPUT POSITIVE 0.5A	OR	--	--	--
6	DIGITAL OUTPUT POSITIVE 0.5A	OR	--	--	--
7	POWER SUPPLY	OR	--	--	--
8	ANALOG INPUT	OR	DIGITAL INPUT	--	--
9	ANALOG INPUT	OR	DIGITAL INPUT	--	--
10	CANH	OR	--	--	--
11	CANL	OR	--	--	--
12	GND	OR	--	--	--

PIN	ECU COMPACT POSSIBLE CONFIGURATIONS HARDWARE 3				
1	ANALOG INPUT	OR	DIGITAL INPUT	--	--
2	--	OR	--	--	--
3	--	OR	--	--	--
4	DIGITAL INPUT	OR	--	--	--
5	--	OR	--	--	--
6	POWER SUPPLY	OR	--	--	--
7	ANALOG INPUT	OR	DIGITAL INPUT	--	--
8	ANALOG OUTPUT	OR	--	--	--
9	ANALOG OUTPUT	OR	--	--	--
10	ANALOG INPUT	OR	DIGITAL INPUT	--	--
11	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	--	--
12	GND	OR	--	--	--

PIN	ECU COMPACT POSSIBLE CONFIGURATIONS HARDWARE 4				
1	CAN H	OR	--	--	--
2	CAN L	OR	--	--	--
3	DIGITAL OUTPUT POSITIVE 0.5A	OR	--	--	--
4	DIGITAL OUTPUT POSITIVE 0.5A	OR	--	--	--
5	DIGITAL OUTPUT POSITIVE 0.5A	OR	PWM OUTPUT 0.5A	--	--
6	DIGITAL OUTPUT POSITIVE 0.5A	OR	PWM OUTPUT 0.5A	--	--
7	ANALOG INPUT	OR	DIGITAL INPUT	--	--
8	ANALOG INPUT	OR	DIGITAL INPUT	--	--
9	ANALOG INPUT	OR	DIGITAL INPUT	--	--
10	ANALOG INPUT	OR	DIGITAL INPUT	--	--
11	GND	OR	--	--	--
12	POWER SUPPLY	OR	--	--	--

