

EPAS18 Ultra ECU

Data Sheet

The EPAS Ultra ECU is designed to work with the DCE EPAS01 Column Assist unit as well as OEM steering Columns from GM such as the Opel Corsa/Holden Barina MKB & C

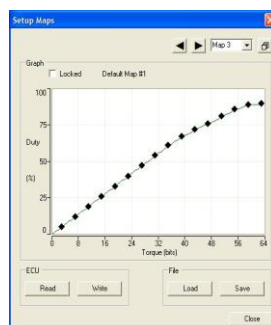


EPAS Ultra ECU

This Ultra ECU has been designed to handle transient currents of up to 80 amps. Connection is via 2 Autosport connectors.

- CAN 2.0b interface.
- 4 x Digital outputs.
- 2 x Speed inputs.
- 2 x Digital inputs.
- 3 x Analogue inputs.
- 5 User programmable steering maps.
- Internal heatsink temperature monitoring.
- External heatsink for maximum thermal performance.
- Internal temperature and peak current tell tales.
- Nominal Voltage 13.8v DC
- Weight: 1.05Kg

The CAN Bus can be used to monitor system performance or select the steering MAP. CAN control is also available for autonomous applications when using additional firmware.



Screen Shot of Steering Map Software

High Power Connector

ECU Connector: AS016-08PN		Mating Connector: AS616-08SN	
Pin No.	Description	Function	I/O
A	Battery +12v	+12v from Battery via 80 amp Fuse*	Input
B	Battery +12v	+12v from Battery Via 80 Amp Fuse*	Input
C	Ground	Battery Negative	Input
D	Ground	Battery Negative	Input
E	Motor +12v	Power To EPAS Motor	Output
F	Motor +12v	Power To EPAS Motor	Output
G	Motor 0v	Power To EPAS Motor	Output
H	Motor 0v	Power To EPAS Motor	Output

* Pins A and B share the same fuse.

Signal Connector

ECU Connector: AS014-35PN		Mating Connector: AS614-35SN	
Pin No.	Description	Function	I/O
1	+12v	Switched +12v rated at 1 amp	Input
2	Ground	Battery Negative	Input
3	Steering Angle	0-5v from Steering Angle Sensor	Input
4-13	Not Used		
14	Sensor 0v	0v for MAP Switch and Steering Sensor	Output
15	Sensor +5v	+5v for MAP Switch and Steering Sensor	Output
16	Tx	RS232 Tx to Com Port	Output
17	Rx	RS232 Rx from Com Port	Input
18	0v	0v to Com Port	Output
19	CAN1 Hi (Internally linked to 29)	CAN Hi In	

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ECU Connector: AS014-35PN		Mating Connector: AS614-35SN	
Pin No.	Description	Function	I/O
20	CAN1 Lo (Internally linked to 30)	CAN Lo In	
21	Not Used		
22	Not Used		
23	Torque – A	Torque Sensor Signal A	Input
24	Torque – B	Torque Sensor Signal B	Input
25	Torque 0v	0v for Torque Sensor	Output
26	Torque +5v	+5v for Torque Sensor	Output
27	Fault Lamp	Switched Ground to Fault Lamp	Output
28	Switch Sig	Steering Map Selection Signal	Input
29	CAN1 Hi (Internally linked to 19)	CAN 1 Out	
30	CAN1 Lo (Internally linked to 20)	CAN1 Out	
31-37	Not Used		

DIMENSIONS (MM)

