

cSCALE IMC A0525

Intelligent Mobile Controller



General Information

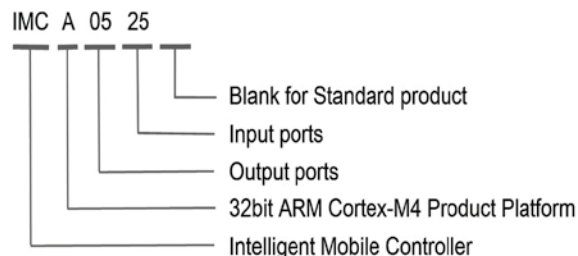
cSCALE IMC A0525 is a powerful mobile controller for the use under demanding conditions in off-highway applications. It is part of a compatible product family and protected by a robust housing designed for the off-highway industry.

Product Features

- 32-bit ARM Cortex-M4 processor, 180 MHz, 256 kB int. RAM, Optional: 2 MB int. Flash
- 2 KB FRAM
- 1 x RS-232 serial interfaces
- 2 x CAN 2.0 B, 50 kbit/s up to 1 Mbit/s
- 8 x analog input, 0...5 V or 4...20 mA/12bit, can be configured by software
- 2 x frequency input, 10 Hz to 15 kHz
- 12 x digital input, high valid > 4 V
- 3 x digital input, low valid < 2 V
- 4 x digital output, 1 A high-side, PWM, open load detection, 12 bit current feedback, current output accuracy 0.5 %
- 1 x sensor supply 5 V, 100 mA
- 3 x status LED, PWR, SYS, USER
- Internal: monitoring of board temperature, sensor supply and battery
- Software: C/C++, KW Multiprog

Order Code

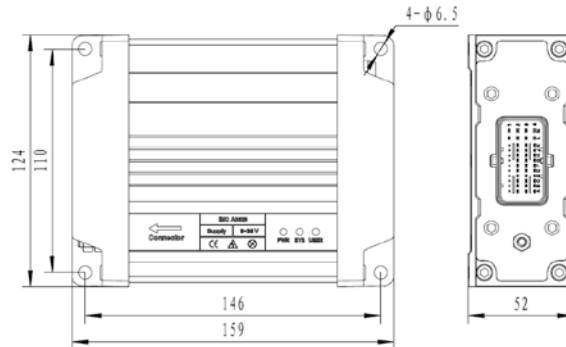
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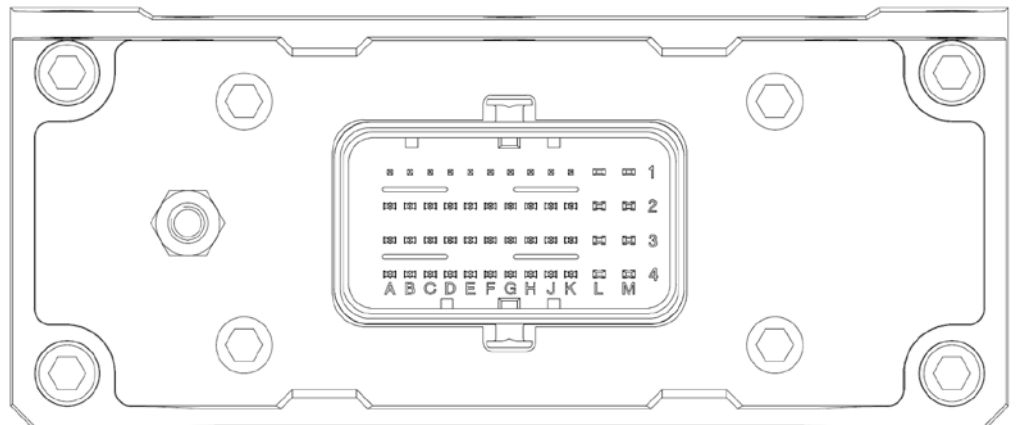
Technical Specification

Description	cSCALE IMC A0525
Operating voltage	8...36 V DC
Idle current	< 100 mA@24 V DC
Operating temperature	-40°C to +70°C
Storage temperature	-40°C to +85°C
Weight	0.691 kg
Housing material	Aluminum
Protection class	IP66/IP67
EMC	IEC 61000-6-2:2005, IEC 61000-6-4:2007, ISO7637-2, ISO7637-3, ISO16750-2
Vibration	IEC 60068-2-6:2008

Dimensions



Pin Assignment



Row	A	B	C	D	E	F	G	H	J	K	L	M
1	DO1CC	DO2CC	DO3CC	DO4CC	DIH1	DIH2	DIH3	DIH4	CAN1H	VREF	+UBP	-UB
2	DIH5	DIH6	DIH7	DIH8	DIH9	DIH10	DIH11	DIH12	CAN1L	-	+UBS	SHLD
3	DIL1	DIL2	DIL3	PI1	PI2	TXD	RXD	BSL	CAN2H	-	AGND	SHLD
4	AI1	AI2	AI3	AI4	AI5	AI6	AI6	AI8	CAN2L	-	+UBP	-UB

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As an experienced specialist, we have spent many years providing reliable safety solutions for lifting loads, setting innovative standards in the process and ensuring dependable communication between machines and their operators, particularly in harsh environments.

By developing application software, mobile controllers and robust sensors, we ensure that our customers benefit

from maximum safety and equipment uptime.

We are system integrators, supporting our customers through all project phases: from analysis and concept evaluation, through system design and project planning to prototype testing and field launches. Our safety experts support certification processes and are available for seamless life cycle management.