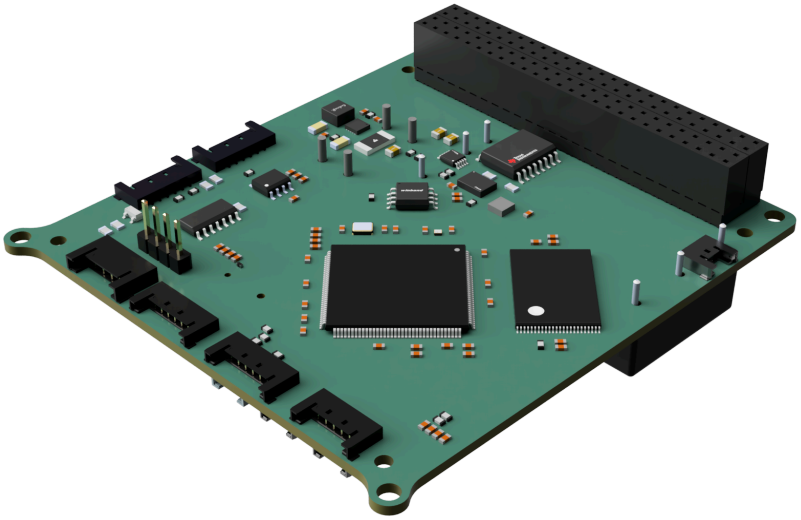
TAKEME2SPACE

SAB

Technical Specifications



Description:

The SMiLE Adapter Board by TakeMe2Space, with heritage from ISRO's PSLV, provides a compliant interface to connect to SMiLE platform power and communication systems. It supports various communication protocols, ensuring seamless integration with your payload. Reduce your SMiLE payload development time by at least 40% with this reliable partner for your mission.

Specifications:

	Parameter	Value
Controller	Controller Type	32-bit Arm® Cortex®
	Processor Clock Speed	Up to 160MHz
	Persistent Storage	10 MB
Power	Input Voltage	18V to 32V
	Input Power protection	The power input has a PPTC and an Efuse with Over Voltage Protection (OVP), Under Voltage Lockout (UVLO), Over Current Protection and Reverse Polarity Protection. The values for these are: OVP : 32V UVLO : 17V Current limit : 3.6A
	Output Voltages	1x 12V 1x 5V 2x 3V3
	Output Current limits	12V Line : 4.5A 5V Line : 2.5A 3.3V Line 1 : 2.5A 3.3V line 2 : 1 A
	Isolation Specification	Isolation Resistance : 1000MΩ Isolation Voltage : 1.6KVDC
	Nominal Voltage	24 V
	Peak Power	86.4 W
Interfaces	Interfaces Supported	2x Full Duplex RS-485 1x CAN 8x GPIO 4x PWM 4x 16bit Analog Inputs 1x SPI

		3x UART 3x I2C
	Onboard Peripherals	1 x IMU 1 x Temperature Sensor
Mechanical	Dimensions	90.83 mm x 85.21 mm x 25.36 mm
	Form factor	PC104 compliant with stackable connector
	Connectors	12 x Molex Picolock, 104 pin Samtec header
Software	Software Development Kit (SDK)	Control SDK Library included
	Debug Interface	SWDIO

Questions? Queries? Contact us at info@tm2.space