TAKEME2SPACE

HPC

Technical specifications



Description:
The Hosted Payload Control Board by TakeMe2Space provides a compliant interface to connect to the satellite power and communication systems to various payloads present inside. It supports various communication protocols, ensuring seamless integration with the payload.

Technical Specifications :

	Parameter	Value
Controller	Controller Type	32-bit Arm® Cortex®
	Processor Clock Speed	Up to 160MHz
Power	Input Voltage	• 10V to 18V • 12V nominal
	Input Power protection	• Over Voltage protection • Under Voltage Lockout • Over Current Protection
	Output Voltages	1x 12V 1x 5V
	Nominal Current	500 mA
	Peak Current	550 mA
	Isolation Specification	Isolation Resistance : 1000MΩ Isolation Voltage : 1.6KVDC
Interfaces	Interfaces Supported	2 x Full Duplex RS-485 1 x GPIO for Power control
	Onboard Peripherals	1 x IMU 1 x Temperature Sensor
Mechanical	Dimensions	96.87 mm x 98.66 mm x 25.7 mm
	Mass	270 g
	Form factor	PC104 compliant with stackable connector
	Connectors	1 x 10 pin Harwin Gecko screw lock for 12V power input 2 x 6 pin Harwin Gecko screw lock for Full Duplex RS-485 3 x 6 pin Harwin Gecko screw lock for 12V Power Output 2 x 6 pin Harwin Gecko screw lock for 5V Power Output 1 x 10 pin Harwin Gecko screw lock for GPIO control

Software	Software Development Kit (SDK)	Control SDK Library included
	Debug Interface	SWDIO

Testing & compliance	T-Vac	2 Cycles with temperature range of +60℃ to -25℃
	Vibration	Random vibration acceptance test levels 20 - 2000 Hz at 4.47grms for 60 seconds
	Shock	100 Hz at 30g 1000 Hz at 1500g 5000 Hz at 1500g

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