

NEWSPACE MARKET · COMPANY PROFILE



Pumpkin, Inc.

United States · founded 1995 · pumpkinspace.com

60

PRODUCTS

26

WITH DATASHEETS

newspacemarket.com/companies/pumpkin-inc/

as of 26 August 2026

Pumpkin, Inc.

Pumpkin, Inc. was founded in 1995, initially producing the Salvo RTOS for microcontrollers. In 2003 the company entered the nanosatellite market with its CubeSat Kit product line, which has since become a de facto standard in the CubeSat industry with over 150 kits delivered across 0.5U through 3U configurations. The firm is ITAR-registered and sells exclusively to qualified customers worldwide. The company's product portfolio spans complete nanosatellite buses (the SUPERNOVA series in 3U, 6U, and 12U), structural assemblies, command-and-data-handling modules, electrical power systems, GPS/GNSS receiver modules, lithium battery modules, and custom solar panels. All flight products carry 'Flight Qualified / Space Proven' status. Pumpkin also develops GUTS flight software, the Salvo RTOS, and the SupMCU firmware suite used across its module ecosystem. Pumpkin's SUPERNOVA architecture has flown on missions from LEO through GTO and has been contracted by the NRO (Colony 1 program), SpaceVR (Overview 1 VR CubeSats), and numerous universities and government agencies. Pumpkin's fixed solar panels boast 100% on-orbit success since 2008 across 600+ panels delivered.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

Product catalogue



PUMPKIN, INC.
104-pin Bus Reversing Adapter

A development tool that allows a CubeSat Kit-compatible module to be installed upside-down on the 104-pin CubeSat bus, for testing modules lacking stackthrough connectors or for un

Connector	104-pin CubeSat bus, stackthrough on one side, standard header on reversed side
All pins passed through	104 of 104 pins routed straight through
Included hardware	3D-printed plastic support arms, miscellaneous M3 fasteners

\$110



PUMPKIN, INC.
12U SUPERNOVA CubeSat Bus

Flight-proven 12U CubeSat bus with 10U payload volume, 105–110W peak solar power, Linux computing, and 1° pointing accuracy.

Form factor	12U CubeSat
Payload volume	10U
Peak solar power (BoL)	105–110 W
Peak payload power	160 W
Energy storage	100 Wh
Supply voltage	3.3–30 V
Data storage	32 GB

price on request



PUMPKIN, INC.
135W Dual Articulated Deployable Solar Array

A compact, deployable 135W solar array with two single-motor Solar Array Drive Assemblies (SADAs) driving independently steerable 67W triple-panel solar arrays, compatible with Pum

Mass of array and sadas	~4360 g (31 W/kg)
Bounding volume (12U)	~198812 cm^3
Bounding dimensions	227.3 cm x 36.5 cm x 23.9 cm
Cog & moi	Available on request
String configuration option 1	3x 7S3P per half
String configuration option 2	3x 21S1P per half
Total power	135 W

price on request



PUMPKIN, INC.
220W Deployable Clamshell Solar Array (DCSA)

A compact 7U-stowed deployable solar array that unfolds into a 24-panel, 192-cell array delivering up to 220W of power for a wide range of spacecraft architectures.

Mass	~5050g (44W/kg)
Bounding volume	~6970 cm^3
Bounding dimensions	43.9 cm x 13.6 cm x 11.6 cm
Cog & moi	Available on request
Stowed volume	7U
Deployed configuration	24-panel, 192-cell, 2x 8S12P solar array in a single plane
Solar cell BOL efficiency	32.2%

price on request datasheet



PUMPKIN, INC.

2nd Switch (L2) Spring Upgrade Kit

The 2nd Switch (L2) Spring Upgrade Kit provides hardware parts to enhance the spring strength of the second switch on Pumpkin base plate assemblies, compatible with Rev-E or later

SKU	711-01478
Compatibility	Rev-E or later motherboard modules
Flight heritage	Flight Hardware Flight Qualified Space Proven

\$88



PUMPKIN, INC.

6U SUPERNOVA CubeSat Bus

Flight-proven 6U CubeSat bus with 4U payload volume, 68W peak solar power, Linux-based computing, and multi-band RF — 6-month lead time.

Form factor	6U CubeSat
Payload volume	4U
Peak solar power (BoL)	68 W
Peak payload power	160 W
Peak regulated power	500 W
Energy storage	100 Wh
Supply voltage	3.3–30 V

price on request



PUMPKIN, INC.

ADACS Payload Walls / 1U Chassis MAI-100/MAI-200 Extension

CubeSat Kit structural walls that extend an MAI-100/200 ADCS unit into a 1U chassis section, enabling integration into larger multi-unit CubeSat structures.

SKU	703-00397
Price	\$1,610.00 per item
Status	Flight Hardware Flight Qualified Space Proven
Flight heritage	JPL/Stanford LMRST-Sat 3U mission
Operating temperature	-40 to +85 °C
Mass	34 g
Height of components above PCB	11 mm

\$1 610

[datasheet](#)

PUMPKIN, INC.

Attitude Determination and Control System (ADACS) Kit

The Attitude Determination and Control System (ADACS) Kit provides a comprehensive solution for spacecraft attitude control.

price on request



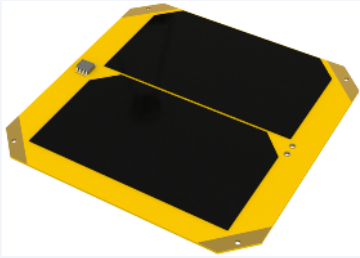


PUMPKIN, INC.
Breakout Board Module

A CubeSat Kit development module that breaks out all bus I/O, USER and MHX signals to headers compatible with common logic analyzers and protocol analyzers.

SKU	711-00380
Price	\$255.00
Classification	Development Hardware
Breakout signals	48 I/O signals (IO.[47..0]), 8 USER[7..0] signals, MHX signals, -RESET
Protocol analyzer header	10-pin breakout header for I2C/SPI protocol analyzers
Header type	2-row male 0.100 in pitch, compatible with HP/Agilent/Keysight logic analyzers and Total P
Bus interface	CubeSat Kit Bus standard, 104-pin connector

\$255 [datasheet](#)

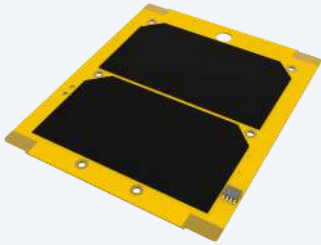


PUMPKIN, INC.
CubeSat Kit Fixed Solar Panel: End Panel

A 0.031in/0.8mm thick fixed (non-deployable) end-panel solar panel for CubeSat Kit satellites, built using Pumpkin's flight-proven PMDSAS construction methods.

SKU	710-00764
Panel thickness	0.031in / 0.8 mm
Solar cell type	Triple-junction solar cells, ~28% to >32% AM0 efficiency over product lifetime
Panel family	Pumpkin Modular Deployable Solar Array System (PMDSAS)
On-orbit track record	Over 600 PMDSAS panels flown since 2008 with 100% on-orbit success rate, LEO through GTO
Quality testing	Vacuum bakeout and comprehensive irradiance test performed on every panel
Hardware class	Flight Hardware Flight Qualified Space Proven

\$2 500



PUMPKIN, INC.

CubeSat Kit Fixed Solar Panels

Fixed (non-deployable) side/body-mounted solar panels for CubeSat Kit satellites, available in 1U, 1.5U, 2U and 3U cell configurations, built using Pumpkin's flight-proven PMDSAS c

Panel thickness	0.031in / 0.8 mm
Solar cell type	Triple-junction solar cells, ~28% to >32% AM0 efficiency over product lifetime
Panel family	Pumpkin Modular Deployable Solar Array System (PMDSAS)
On-orbit track record	Over 600 PMDSAS panels flown since 2008 with 100% on-orbit success rate, LEO through GTO
Quality testing	Vacuum bakeout and comprehensive irradiance test performed on every panel
Hardware class	Flight Hardware Flight Qualified Space Proven
Size option: 1u	2 large-area triple-junction solar cells

\$2 500 – \$5 650



PUMPKIN, INC.

CubeSat Kit for Microchip dsPIC33 DSCs

Pumpkin's complete CubeSat bus kit built around the Microchip dsPIC33FJ256GB210 low-power 16-bit Digital Signal Controller, bundling structure, C&DH module, development tools,

Dsc	Microchip dsPIC33FJ256GB210, low-power 16-bit Digital Signal Controller
Processor module	Pluggable Socketed Processor Module D (PSPM D) with dsPIC33FJ256GP710
Processor module variant	Pluggable Processor Module D2 (PPM D2)
Programming adapter	JFPC-PIC24 Programming Adapter
Debugger	Microchip MPLAB-ICD3 USB In-Circuit Debugger
Rtos	Salvo Pro for PIC24 MCUs and dsPIC DSCs
File system library	HCC-Embedded dsPIC33 EDFS-THIN SD Card Library

\$9 855 – \$11 500

PUMPKIN, INC.

CubeSat Kit for Microchip PIC24 MCUs

Pumpkin's complete CubeSat bus kit built around the Microchip PIC24FJ256GA110 low-power 16-bit MCU, bundling structure, command & data handling module, development tools, RTOS/

Mcu	Microchip PIC24FJ256GA110, low-power 16-bit
Processor module	Pluggable Socketed Processor Module D (PSPM D) with PIC24FJ256GA110
Processor module variant	Pluggable Processor Module D1 (PPM D1)
Programming adapter	JFPC-PIC24 Programming Adapter
Debugger	Microchip MPLAB-ICD3 USB In- Circuit Debugger
Rtos	Salvo Pro for PIC24 MCUs and dsPIC DSCs
File system library	HCC-Embedded PIC24 EDFS-THIN SD Card Library

price on request



PUMPKIN, INC.

CubeSat Kit for Microchip PIC24 MCUs w/USB OTG

Pumpkin's complete CubeSat bus kit built around the Microchip PIC24FJ256GB210 low-power 16-bit MCU with USB On-The-Go support, bundling structure, C&DH module, development tool

Mcu	Microchip PIC24FJ256GB210, low-power 16-bit, with USB OTG
Processor module	Pluggable Socketed Processor Module E (PSPM E) with PIC24FJ256GB210
Processor module variant	Pluggable Processor Module E1 (PPM E1)
Programming adapter	JFPC-PIC24 Programming Adapter
Debugger	Microchip MPLAB-ICD3 USB In- Circuit Debugger
Rtos	Salvo Pro for PIC24 MCUs and dsPIC DSCs
File system library	HCC-Embedded PIC24 EDFS-THIN SD Card Library

\$9 855 – \$11 500

[datasheet](#)



PUMPKIN, INC.

CubeSat Kit Quad-switch Cover Plate Assembly

A flight-qualified cover plate for CubeSat Kit structures permitting the use of up to four separation/inhibit switches, installable in any of four orientations at the top of the ch

Material	Al 5052-H32, plated per CubeSat Design Specification (CDS)
Mounting screws	Four M3 flathead stainless-steel screws
Number of switches	Four independent separation/inhibit switches (3 usable on standard CubeSat Kit chassis; 4
Switch terminals	C, NC and NO solder terminals per switch
Style options	Solid-wall style, and style with 88 mm diameter central hole
Orientation	Installable in any of four orientations at the top of a CubeSat Kit structure
Classification	Flight Hardware Flight Qualified Space Proven

\$865 [datasheet](#)



PUMPKIN, INC.

CubeSat Kit Upgrade to C8051

A hardware-and-software upgrade bundle that adds Silicon Labs C8051F120 development and flight capability to an existing CubeSat Kit.

SKU	711-00717
Includes	Pluggable Socketed Processor Module B (PSPM B) with C8051F120; Pluggable Processor Module
Required toolchain	Keil PK51 Professional Developer's Kit (purchased separately)
Hardware/software class	Development Hardware Development Software Flight Hardware Flight Qualified Space P
Purchase restriction	Available only to customers who have already purchased a CubeSat Kit
Operating temperature	-40 to +85 °C
Mass	68 g

[price on request](#) [datasheet](#)

PUMPKIN, INC.

CubeSat Kit Upgrade to dsPIC33

A software and hardware upgrade package adding Microchip dsPIC33FJ256GP710 support to an existing CubeSat Kit purchase, for customers who originally bought a Kit with a different p

SKU	711-00719
Price	\$5,455.00 per item
Hardware/software classification	Development Hardware Development Software Flight Hardware Flight Qualified Space P
Included component	Pluggable Socketed Processor Module D (PSPM D) with dsPIC33FJ256GP710
Included component (2)	Pluggable Processor Module D2 (PPM D2)
Included component (min)	JFPC-PIC24 Programming Adapter
Included component (4)	Microchip MPLAB-ICD3 USB In-Circuit Debugger

\$5 455

PUMPKIN, INC.

CubeSat Kit Upgrade to MSP430

A hardware-and-software upgrade bundle that adds Texas Instruments MSP430 development and flight capability to an existing CubeSat Kit.

SKU	711-00716
Includes	MSP-TS430PM64 Adapter with MSP430F2618/F1612/F1611; Pluggable Processor Module A3 (PPM A3)
Required toolchain	CrossWorks for MSP430 (Rowley Associates), purchased separately
Hardware/software class	Development Hardware Development Software Flight Hardware Flight Qualified Space P
Purchase restriction	Available only to customers who have already purchased a CubeSat Kit

[price on request](#)

PUMPKIN, INC.

CubeSat Kit Upgrade to PIC24 (PIC24FJ256GA110)

A software and hardware upgrade package adding Microchip PIC24FJ256GA110 support to an existing CubeSat Kit purchase, for customers who originally bought a Kit with a different pro

SKU	711-00718
Price	\$5,455.00 per item
Hardware/software classification	Development Hardware Development Software Flight Hardware Flight Qualified Space P
Included component	Pluggable Socketed Processor Module D (PSPM D) with PIC24FJ256GA110
Included component (2)	Pluggable Processor Module D1 (PPM D1)
Included component (min)	JFPC-PIC24 Programming Adapter
Included component (4)	Microchip MPLAB-ICD3 USB In-Circuit Debugger

\$5 455



PUMPKIN, INC.

CubeSat Kit™ Base Plate Assembly

A precision aluminum end-plate assembly that forms the Motherboard Module (MBM)/C&DH end of a CubeSat Kit structure, available with single- or dual-independent separation switc

Configuration option: type	Solid-Wall, Skeletonized
Configuration option: separation switch	Single (deprecated), Dual
Material	Al 5052-H32, plated per CubeSat Design Specification (CDS)
Mounting fasteners	6x M3 flathead stainless-steel screws
Separation switch terminals	C, NC, NO solder terminals per switch
Price range (USD)	\$690.00 - \$1,560.00

\$690 – \$1 560

PUMPKIN, INC.

CubeSat Kit Upgrade to PIC24 (PIC24FJ256GB210)

A software and hardware upgrade package adding Microchip PIC24FJ256GB210 support to an existing CubeSat Kit purchase, for customers who originally bought a Kit with a different pro

SKU	711-00795
Price	\$5,455.00 per item
Hardware/software classification	Development Hardware Development Software Flight Hardware Flight Qualified Space P
Included component	Pluggable Socketed Processor Module E (PSPM E) with PIC24FJ256GB210
Included component (2)	Pluggable Processor Module E1 (PPM E1)
Included component (min)	JFPC-PIC24 Programming Adapter
Included component (4)	Microchip MPLAB-ICD3 USB In-Circuit Debugger

\$5 455



PUMPKIN, INC.

CubeSat Kit™ Base Plate Assembly for AntS Antenna

A base-plate assembly variant configured to mount a third-party AntS deployable antenna system, with dual independent separation switches, forming the Motherboard-Module end of a C

Configuration option: separation switch	Dual
Material	Al 5052-H32, plated per CubeSat Design Specification (CDS)
Mounting fasteners (to Chassis Walls)	6x M3 flathead stainless-steel screws
Antenna compatibility	Third-party AntS deployable antenna system
Antenna mounting fasteners	4x threaded fasteners
Separation switch terminals	C, NC, NO solder terminals per switch
Price (USD)	\$1,085.00

\$1 085



PUMPKIN, INC.

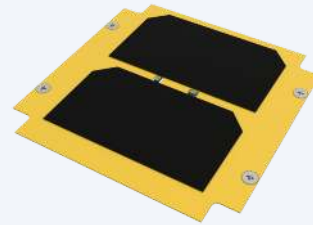
CubeSat Kit™ Chassis Walls

Pumpkin's pioneering one-piece sheet-metal CubeSat structural element, available in 0.5U-3U sizes, that forms the primary chassis of a CubeSat Kit structure and defines its 97mm x

Configuration option: size	0.5U, 1U, 1.5U, 2U, 3U
Configuration option: type	Solid-Wall, Skeletonized
Material	Al 5052-H32, plated per CubeSat Design Specification (CDS)
Internal cross-section	97 mm x 97 mm
Construction	One-piece
Example 2u skeletonized structure part numbers	703-00291 (Chassis Walls), 710-00294, 710-00296 (Base/Cover Plate Assemblies)
Price range (USD)	\$1,215.00 - \$2,955.00

\$1 215 – \$2 955

[datasheet](#)

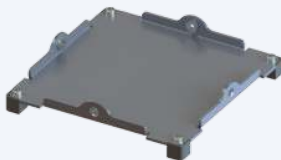


PUMPKIN, INC.

CubeSat Kit™ Components for ISIS Antenna System (AntS)

This page offers various CubeSat Kit™ components specifically designed for the ISIS Antenna System (AntS), including solar panels, cover plate assemblies, base plate assemblies, an

price on request



PUMPKIN, INC.

CubeSat Kit™ Cover Plate Assembly

A precision aluminum end-plate assembly that forms the payload end of a CubeSat Kit structure, secured to the Chassis Walls and fitted with four corner feet per the CubeSat Design

Configuration option: type	Solid-Wall, Skeletonized
Material	Al 5052-H32, plated per CubeSat Design Specification (CDS)
Mounting fasteners	4x M3 flathead stainless-steel screws
Corner feet	4 (included)
Options	Separation plungers in feet; additional separation switches in feet
Price range (USD)	\$495.00
Dimensions	100 mm x 100 mm / 3.937 in x 3.937 in

\$495

[datasheet](#)



PUMPKIN, INC.

CubeSat Kit™ Cover Plate Assembly for AntS antenna

A cover-plate assembly variant configured to mount a third-party AntS deployable antenna system, with dual independent separation switches, forming one end of a CubeSat Kit structu

Configuration option: separation switch	None, Dual
Antenna compatibility	Third-party AntS deployable antenna system
Antenna mounting fasteners	4x threaded fasteners
Separation switch terminals	C, NC, NO solder terminals per switch
Price range (USD)	\$955.00 - \$1,085.00
Mass	29 g

\$955 – \$1 085

[datasheet](#)



PUMPKIN, INC.

CubeSat Kit™ Large Aperture Base Plate Assembly, Dual Switch

A precision-machined aluminum base plate assembly for the CubeSat Kit structure, designed for use with the Motherboard Module (MBM) C&DH subsystem and featuring dual switch fun

SKU	710-02203
Price	\$820.00 per item
Material	Al 5052-H32
Plating	Per CubeSat Design Specification (CDS)
Attachment	Six M3 flathead stainless-steel screws to Chassis Walls
Flight heritage	Flight Hardware Flight Qualified Space Proven

\$820



PUMPKIN, INC.

CubeSat Kit™ Large Aperture Cover Plate Assembly

A CDS-compliant cover-plate assembly with an 88mm-diameter central cutout for payload-end apertures such as optics or antennas, with optional separation plungers and switches.

Configuration option: separation switch	None, Dual
Material	Al 5052-H32, plated per CubeSat Design Specification (CDS)
Mounting fasteners	4x M3 flathead stainless-steel screws
Central cutout diameter	88 mm
Corner feet	4 (included)
Options	Separation plungers in feet; additional separation switches in feet
Price range (USD)	\$690.00 - \$820.00

\$690 – \$820

[datasheet](#)



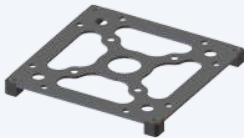
PUMPKIN, INC.

CubeSat Kit™ Payload Adapter Plate

A bulkhead plate used on the payload end of a CubeSat Kit structure to interface Pumpkin's sheet-metal Chassis Walls with a machined-aluminum external payload, enabling hybrid shee

Material	Al 5052-H32, plated per CubeSat Design Specification (CDS)
Mounting fasteners (to Chassis Walls)	4x M3 flathead stainless-steel screws
Payload mounting	M3 bolt square pattern
Typical pairing	Payload Cover Plate Assembly (payload sandwiched between the two)
Price (USD)	\$360.00

\$360



PUMPKIN, INC.

CubeSat Kit™ Payload Cover Plate Assembly

A CDS-compliant cover-plate assembly with four corner feet used on the payload end of a CubeSat Kit structure to interface a machined-aluminum external payload, typically paired wi

Material	Al 5052-H32, plated per CubeSat Design Specification (CDS)
Payload mounting	M3 bolt square pattern
Corner feet	4 (included)
Typical pairing	Payload Adapter Plate (payload sandwiched between the two)
Price (USD)	\$495.00
Switch travel (open to closed)	1.75 mm
Switch travel (open to overtravel)	2.55 mm

\$495

[datasheet](#)



PUMPKIN, INC.

CubeSat Kit™ Pro Chassis Walls

The premium, higher-specification tier of Pumpkin's flight-proven one-piece sheet-metal CubeSat structural element, offered in 0.5U-3U sizes as Flight Hardware, Flight Qualified, S

Configuration option: size	0.5U, 1U, 1.5U, 2U, 3U
Product tier	Pro (premium variant of CubeSat Kit Chassis Walls)
Price range (USD)	\$22,500.00 - \$39,500.00

\$22 500 – \$39 500



PUMPKIN, INC.

Custom PMDSAS Panel, Body-Mounted, per Cell

Custom body-mounted solar panels built with Pumpkin's Modular Deployable Solar Array System (PMDSAS) technology, priced per solar cell, with a 100% on-orbit success rate since 2008

Technology	Pumpkin Modular Deployable Solar Array System (PMDSAS)
Mounting type	Body-mounted
On-orbit heritage	600+ panels flown since 2008, 100% on-orbit success rate, LEO to GTO
Solar cell efficiency (historical)	~28% AM0 (early triple-junction cells)
Solar cell efficiency (current)	>32% AM0
Optional features	Temperature sensors, PRM features, connectors, harnesses
Testing	Vacuum bakeout and comprehensive irradiance test performed on every panel

\$1 250 [datasheet](#)



PUMPKIN, INC.

Custom PMDSAS Panel, Deployable, per Cell

Custom deployable solar panels built with Pumpkin's Modular Deployable Solar Array System (PMDSAS) technology, priced per solar cell, with a 100% on-orbit success rate since 2008.

Technology	Pumpkin Modular Deployable Solar Array System (PMDSAS)
Mounting type	Deployable
On-orbit heritage	600+ panels flown since 2008, 100% on-orbit success rate, LEO to GTO
Solar cell efficiency (historical)	~28% AM0 (early triple-junction cells)
Solar cell efficiency (current)	>32% AM0
Optional features	Temperature sensors, PRM features, connectors, harnesses
Testing	Vacuum bakeout and comprehensive irradiance test performed on every panel

\$1 500



PUMPKIN, INC.

Custom Solar Panels

Pumpkin, Inc. offers custom solar panels, including body-mounted and deployable options, designed for various space applications.

price on request



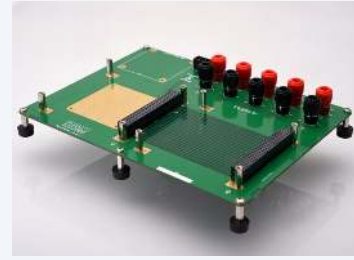
PUMPKIN, INC.

Development Board (DB)

Pumpkin CubeSat Kit module that hosts a Pluggable Processor Module (PPM) to form a low-power 8- or 16-bit MCU/DSC command-and-data-handling (C&DH) module for a CubeSat.

SKU	710-00297
Price	\$1,710.00
Bus interface	CubeSat Kit Bus standard, 104-pin connector
Compatible processor modules	PPM A1, PPM A2, PPM A3, PPM B1, PPM D1, PPM D2, PPM E1
Ordering restriction	A la carte orders require prior purchase of a complete CubeSat Kit
Voltage on +5V_USB bus	-0.3 to +6 V
Voltage on +5V_SYS bus	-0.3 to +6 V

\$1 710 [datasheet](#)



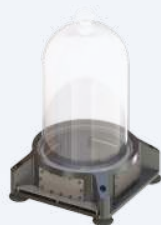
PUMPKIN, INC.

Development Board 2 (DB2)

A simple development tool board for CubeSat modules conforming to the 104-pin CubeSat bus standard, used to characterize power requirements and support testing of CubeSat Kit-compa

Bus connectors	Two interconnected 104-pin CubeSat bus connectors with M3 standoffs
Module stacks supported	Two
Debug header	10-pin header for Total Phase I2C host adapters/protocol analyzers (I2C, first SPI bus sig
Power bus test points	Four pairs red/black banana jacks (plus a fifth pair reserved for EPSM 1)
USB debug adapter mounting	Mounting hole pattern provided in a corner of the DB2
Ground plane	Large exposed ground plane beneath one module slot

\$375

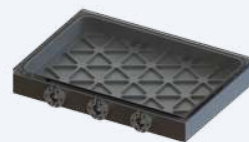


PUMPKIN, INC.

DVC 1 Desktop Vacuum Chamber 1

The DVC 1 Desktop Vacuum Chamber is a compact and essential tool for various space-related applications, offering a controlled vacuum environment for testing and research.

\$8 995



PUMPKIN, INC.

DVC 2 Desktop Vacuum Chamber 2

The DVC 2 Desktop Vacuum Chamber 2 is a compact and versatile vacuum chamber designed for various applications, offering both natural and hard-anodized aluminum base types.

\$2 395



PUMPKIN, INC.

External Power Supply

A desktop switching power supply, available in +5Vdc or 6-12Vdc output variants, used to bench-power Pumpkin's Development Board and Motherboard Module during ground development.

Price	\$80.00
Output voltage options	5Vdc; 6-12Vdc
Connector	5.5/2.1 mm barrel plug
AC input cord	IEC power cord receptacle; 3-prong / grounded IEC cord provided (USA customers)
Compatible with (5Vdc supply)	Motherboard Module (MBM); Motherboard Module 2 (MBM 2); Development Board (DB)
Compatible with (6-12Vdc supply)	Development Board (DB), via +6Vdc to +26Vdc input
Category (site breadcrumb)	CubeSat Kit Accessories

\$80



PUMPKIN, INC.

Flight Switch Simulator Module

A CubeSat Kit test module that simulates one Remove-Before-Flight switch and up to three separation switches, electrically compatible with common CubeSat EPS designs.

Simulated rbf switches	1
Simulated separation switches	Up to 3
Switch logic combination	AND / OR via user-settable jumpers
Bus compatibility	104-pin CubeSat Kit Bus standard
Includes	One fully assembled Flight Switch Simulator Module
Product type	Development Hardware

\$425



PUMPKIN, INC.

GNSS Receiver Module (GPSRM 1) Kit

Pumpkin's flight GNSS receiver module for CubeSats, built around a NovAtel OEM719-series 555-channel space-grade receiver with dual selectable orbit propagators (Vinti7 and SGP4) f

Price range	\$11,485.00 - \$20,026.00
Classification	Flight Hardware Flight Qualified Space Proven
GNSS receiver	NovAtel OEM719-GSN-LNN-TBN-H, 555-channel space-grade GNSS receiver
Base constellation	GPS L1 (single frequency)
Constellation options	GPS; GPS + GLONASS
Frequency band options	L1; L1 + L2
Positioning mode	Single Point + DGPS PNT

\$11 485 – \$20 026

[datasheet](#)



PUMPKIN, INC.

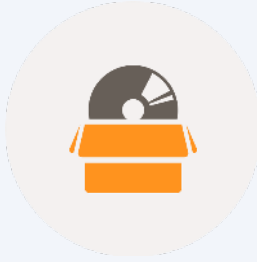
HCC-Embedded 8051 EFFS-THIN SD Card Library for the CubeSat Kit

This product is the HCC-Embedded 8051 EFFS-THIN SD Card Library, specifically designed for use with the CubeSat Kit.

Mass	68 g
PCB width	90 mm
PCB length	96 mm
PCB thickness	1.6 mm
Operating Voltage	3.3 V
Operating current	20 mA
Primary crystal frequency	8.000 ± 0.01 MHz

[price on request](#)

[datasheet](#)

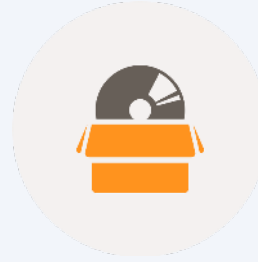


PUMPKIN, INC.

HCC-Embedded dsPIC33 EFFS-THIN SD Card Library for the CubeSat Kit

This product is an HCC-Embedded dsPIC33 EFFS-THIN SD Card Library specifically designed for use with the CubeSat Kit.

\$985



PUMPKIN, INC.

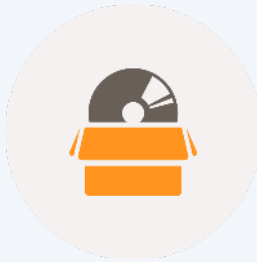
HCC-Embedded MSP430 EFFS-THIN SD Card Library for the CubeSat Kit

This product is an HCC-Embedded MSP430 EFFS-THIN SD Card Library specifically designed for use with the CubeSat Kit.

Operating temperature	-40 to +85 °C
Mass	68 g
Height of components above PCB	19 mm
Height of components below PCB	3 mm
PCB width	90 mm
PCB length	96 mm
PCB thickness	1.6 mm

\$985

[datasheet](#)



PUMPKIN, INC.

HCC-Embedded PIC24 EFFS-THIN SD Card Library for the CubeSat Kit

This product is an HCC-Embedded PIC24 EFFS-THIN SD Card Library specifically designed for use with the CubeSat Kit.

Operating temperature	-40 to +85 °C
Mass	68 g
Dimensions	96 mm (length) x 90 mm (width) x 19 mm (height of components above PCB) x 3 mm (height of components below PCB)
PCB thickness	1.6 mm
Operating voltage	3.3 V
SD Card voltage	3.3 V
Operating current	20 mA

\$985

[datasheet](#)



PUMPKIN, INC.

High-Power Electrical Power System Module (EPSM1)

Multi-channel space-grade EPS module with 6 MPPT solar inputs (max 480W total), dual Li-Ion battery ports, and configurable 3.3–28V output rails with >99% efficiency.

Solar input channels	6
Max total solar input	480 W
Mppt frequency	250 kHz
Max input per channel	4 A at 28 V
Battery ports	2
Battery voltage	16.8 V Li-Ion
Max battery charge rate	6 A CC

\$48 000

[datasheet](#)



PUMPKIN, INC.

High-power Multi-channel Electrical Power System Module (EPSM1)

A high-performance, highly efficient FPGA-driven, GaNFET-based multichannel power system module for small satellites, handling up to 480W of solar input and ~300W of regulated output

Switching blocks	Twelve non-isolated 250 kHz switching blocks
Solar array inputs (sai1-sai6) max total power	480 W
Battery reserve power	up to 112 W per battery
Battery charge voltage	16.8 V Li-Ion, CC/CV, up to 6 A
Output 3v3 / 5v0 current	up to 5 A each
Output 12v / 28v current	up to 8 A each
Total regulated output power	~300 W

\$48 000



PUMPKIN, INC.

High-power Multi-channel Electrical Power System Module (EPSM1)

The EPSM1 is a high-power, multi-channel Electrical Power System Module designed for space applications.

\$48 000



PUMPKIN, INC.

I/O LED Module

A CubeSat Kit development module that visually displays the status of all 48 bus I/O lines on LEDs for at-a-glance monitoring during integration and test.

SKU	710-00521
Price	\$360.00
Classification	Development Hardware
I/o signals monitored	48 (I0.[47..0])
Signal buffering	Every I/O signal buffered
Control	ON/OFF switch to disable LEDs and zero current draw
Test points	Through-hole test points for each I/O signal on H1 and H2 connectors

\$360

[datasheet](#)



PUMPKIN, INC.

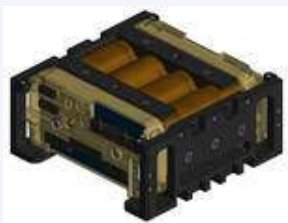
Intelligent Lithium Battery Module (BM2)

Space-grade 8-cell Li-Ion battery module with coulomb-counting SoC, cell balancing, configurable voltage (2S4P/3S2P/4S2P), and 15A max output — up to 100Wh.

Cell type	8× 18650-size Li-Ion
Configuration options	2S4P (8.4 V), 3S2P (12.6 V), 4S2P (16.8 V)
Capacity options	72 Wh / 86 Wh / 100 Wh
Max continuous output	15 A
Peak output power	160 W
Min charge current	5 A CC
Footprint	100 × 100 mm

\$10 500

[datasheet](#)



PUMPKIN, INC.

Intelligent Protected Lithium Battery Module with SoC Reporting (BM2)

Pumpkin's flight-qualified, protected lithium-ion battery module (BM2) with state-of-charge reporting, configurable cell topology and capacity, for CubeSats and small satellites.

Battery configuration option 2s4p	8 cells, 5.2-8.4 V
Battery configuration option 3s2p	6 cells, 7.8-12.6 V
Battery configuration option 4s2p	8 cells, 10.4-16.8 V
Cell capacity option 1	2500 mAh (72 Wh with 8 cells)
Cell capacity option 2	3000 mAh (86 Wh with 8 cells)
Cell capacity option 3	3500 mAh (100 Wh with 8 cells)
Cell option (custom)	User-provided 18650 cells (+\$1000)

\$10 500 – \$12 500

[datasheet](#)



PUMPKIN, INC.

JFPC-C8051 Programming Adapter

A programming/debug adapter cable that connects a Silicon Labs USB Debug Adapter to a Pluggable Processor Module (PPM) B1 in a CubeSat Kit.

SKU	710-00488
Connector a	2x5 0.100" pitch header (10-pin JTAG, mates with Silicon Labs USB Debug Adapter)
Connector b	8-pin flat printed circuit cable (FPC)
Hardware class	Development Hardware
Used with	Pluggable Processor Module (PPM) B1 / Silicon Labs USB Debug Adapter
Mass	68 g
Height of components above PCB	19 mm

\$50

[datasheet](#)



PUMPKIN, INC.

JFPC-MSP430 Programming Adapter

A programming/debug adapter cable that connects a TI MSP430 Flash Emulation Tool (FET) to a Pluggable Processor Module (PPM) A1/A2/A3 in a CubeSat Kit.

SKU	634-00334
Connector a	2x7 0.100" pitch header (14-pin JTAG, mates with TI MSP430 FET)
Connector b	8-pin flat printed circuit cable (FPC)
Hardware class	Development Hardware
Used with	Pluggable Processor Module (PPM) A1 / A2 / A3

\$50

[datasheet](#)



PUMPKIN, INC.

JFPC-PIC24 Programming Adapter

A programming/debug adapter used to connect a Microchip In-Circuit Debugger (ICD 3) or PICKit programmer to a CubeSat Kit Pluggable Processor Module (PPM D1/D2/E1).

SKU	710-00540
Price	\$50.00 per item
Hardware classification	Development Hardware
Connector 1	6-pin RJ-11 jack (for ICD 3 phone-style cable)
Connector 2	6-pin flat printed circuit (FPC) cable
Connector 3	6-pin 0.100" pitch header (for Microchip PICKit family)
Compatible modules	BIM 1, BM 2, BSM 1, EPSM 1, GPSRM 1, PIM 1, PPM D1, PPM D2, PPM E1, SIM 1

\$50

[datasheet](#)



PUMPKIN, INC.
Linear EPS Module (LEPSM1)

A low-cost development-only Electrical Power System module with 10-20Wh of battery energy that supplies +7.4Vdc, +5Vdc and +3.3Vdc rails to a CubeSat Kit stack during bench develop

Price range	\$980.00 - \$1,145.00
Classification	Development Hardware Not for Space Use
Battery energy	10 Wh (standard battery) or 20 Wh (double battery)
Output rails	+7.4Vdc (nominal), +5Vdc, +3.3Vdc
Battery voltage (VBATT)	6-8.4 Vdc (2S Lithium Polymer)
Recharge interface	Built-in microUSB connector, or system +5 V_USB
Status indicator	3-segment LED bargraph (charge progress / SOC)

\$980 – \$1 145 [datasheet](#)



PUMPKIN, INC.
Load Board

A CubeSat Kit Accessories module (Load Board A) sold by Pumpkin for use during CubeSat integration and test.

SKU	711-00651
Price	\$255.00
Category (site breadcrumb)	CubeSat Kit Accessories
Cad/datasheet file name (no link provided)	Load Board A

\$255



PUMPKIN, INC.

Load Module

A CubeSat Kit accessory module that exposes VBATT, +5V_SYS and VCC_SYS power buses on banana jacks and connectors for drawing or injecting test power.

Vcc_sys	+3.3 V
+5v_sys	+5.0 V
Vbatt	8-28V depending on application
Connectors	Banana jacks (x3 pairs); two 8-pin Harwin M80 connectors (J391, J390)
Configurable resistors	R1 (routes H2 pins 39/40 to J390), R2 (routes H2 pins 51/52 to J390) -- one fitted at fact
Bus compatibility	104-pin CubeSat Kit Bus standard
Protection	None -- no overcurrent/overvoltage protection on banana jacks

price on request



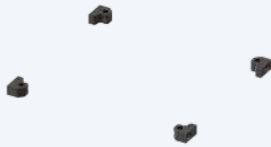
PUMPKIN, INC.

Lunar Rover Solar Panel

A custom PMDSAS solar array configured to the design constraints of a customer's lunar rover, with custom solar cell string configuration and ability to incorporate additional sens

Example configuration	72-cell, 6x10S1P + 1x12S1P solar panel
Example driven load	Pumpkin EPSM 1 with two 100 Wh BM2 battery modules (not included)
Routing	Single-layer maze routing, no vias
Reliability features	Redundant current paths for every electrical node, strain-relieved interconnects, vacuum-b
Flight heritage	PMDSAS solar panel/solar array technology: 100% success rate in LEO and GTO orbits

price on request



PUMPKIN, INC.
Mid-plane Standoff Kit

A hard-anodized aluminum standoff kit that couples the four threaded-rod columns of a CubeSat electronics module stack to the Chassis Walls, preventing lateral motion under vibrati

Kit contents	4 unique precision hard-anodized aluminum pieces + fastening hardware
Function	Couples threaded-rod columns of module stack to Chassis Walls; restrains X/Y motion under
Compatible chassis walls sizes	1U, 1.5U, 2U, 3U (pre-drilled mounting holes); usable in 1U when space permits
Datasheet part number	711-00331-B
Price (USD)	\$200.00
Mass	4 g
Height	5.0 mm

[\\$200](#) [datasheet](#)



PUMPKIN, INC.
MISC™ Satellite Assemblies

Pumpkin, Inc. offers MISC™ Satellite Assemblies, providing essential components for various space missions.

[price on request](#)

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