

NEWSPACE MARKET · COMPANY PROFILE

2**NDS**pace

2NDSpace Srl

Italy · founded 2023 · 2ndspace.eu

37

PRODUCTS

28

WITH DATASHEETS

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as of 23 August 2026

2NDSpace Srl

2NDSpace Srl, founded in May 2023 and headquartered in Faenza (Ravenna), Italy, is a New Space company specializing in innovative nanosatellite and CubeSat hardware and separation systems, founded by a team of experienced satellite engineers with a track record designing and building satellite systems for a variety of applications. 2NDSpace designs and manufactures everything from individual nanosatellite components to complete platforms: modular CubeSat structures (VERSE, 1U-16U), body-mounted and deployable solar panels (CORE and DROP), electrical power systems (SOLO EPS), deployable UHF/VHF communication antennas (CHORUS), on-board computers (MASTER/MASTER II), and CubeSat deployers/separation systems (OPERA). Its 'Customization as a Standard' approach uses modular architecture so standard products can be tailored to specific mission needs. The company reports more than 30 cumulative years of team experience in space, over 50 worldwide customers and partners, more than 50 space systems currently in orbit, and 7 nanosatellites manufactured and launched. 2NDSpace also offers engineering services including custom product design, mission design, system qualification, and launch integration, and participates in the ESA Business Incubation Centre Padua.

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



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CHORUS Deployable Antenna

CHORUS deployable antennas offer full configurability in UHF or VHF, with linear double-dipole or turnstile layouts covering all form factors from 1U to 16U.

price on request



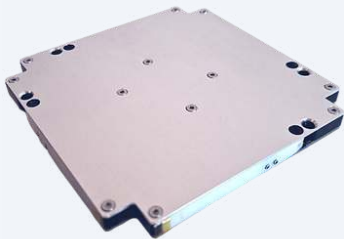
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CHORUS Deployable Antenna

CHORUS deployable antennas are configurable UHF or VHF antennas for CubeSats ranging from 1U to 16U, featuring linear double-dipole or turnstile layouts and a triple-redundant deployment mechanism.

Frequency range	150–930 MHz
Bandwidth	20 dB
Typical vswr	< 1.3
Gain	> 0 dBi
Supply voltage	3.3 V / 5 V
Interface	I2C
Suggested for	1U – 2U – 3U CubeSat

flight proven · TRL 9 price on request



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CHORUS-01 Deployable Cubesat antenna

The CHORUS-01 is a deployable antenna system for CubeSats, available in multiple configurations to support various polarization and frequency requirements.

Polarization (LP)	Linear
Configuration (LP)	2x Dipoles
Independent Frequencies (LP)	2x
Frequency	150 - 930 MHz
Suggested for	1U-2U-3U
Bandwidth	20dB
Typical VSWR	< 1.3

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CHORUS-06 Deployable Cubesat antenna

The CHORUS-06 is a deployable antenna system for CubeSats, offering various configurations and polarizations for UHF or VHF bands.

Polarization (CHORUS-06-M)	Linear
Configuration (CHORUS-06-M)	2x Monopoles
Independent Frequencies (CHORUS-06-M)	2x
Frequency	150 - 930 MHz
Suggested for	6U-12U-16U
Bandwidth	20dB
Typical VSWR	< 1.3

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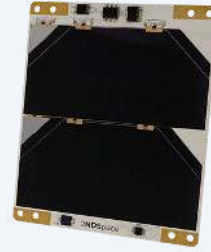
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CORE Solar Panels

CORE is a series of body-mounted CubeSat solar panels from 2NDSpace, designed for reliable power generation with flight heritage.

Type	Body-mounted
Variants	CORE-01, 01Z, 02, 03, 06Z, 08, 12, 12Z, 16
Compatible form factors	1U to 16U

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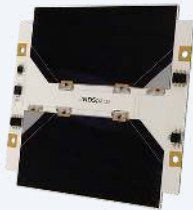
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CORE-01 1U Cubesat Solar panel

The CORE-01 is a 1U CubeSat solar panel designed for reliable power generation in space, featuring dual redundant protection and customizable integration options.

Peak Power	2.45 W
OC Voltage options	5.2 V
Suggested for	1U
Side	Lateral
Form Factor	1U Lateral XY
Mass	38 g
Protection	Dual redundant

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CORE-01Z 1U Cubesat Top Solar panel

The CORE-01Z is a 1U CubeSat top solar panel from 2NDSpace Srl, offering 2.45 W peak power and proven reliability for small satellite missions.

Peak Power	2.45 W
OC Voltage options	5.2 V
Suggested for	1U
Side	Top/Bottom
Form Factor	1U Z
Mass	38 g
Protection	Dual redundant

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CORE-02 2U Cubesat Solar panel

The CORE-02 is a 2U CubeSat solar panel designed for lateral mounting, offering 5W peak power and dual redundant protection.

Peak Power	5W
OC Voltage options	5.2 V
Suggested for	2U
Side	Lateral
Form Factor	2U Lateral XY
Mass	80 g
Protection	Dual redundant

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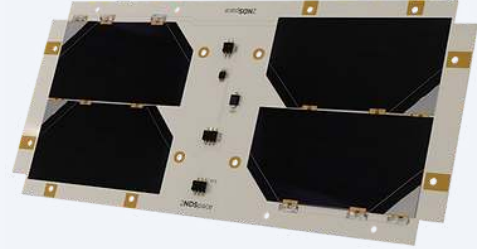
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CORE-03 3U Cubesat Solar panel

The CORE-03 is a 3U CubeSat solar panel from 2NDSpace Srl, offering reliable power generation with options for various open-circuit voltages and a robust design suitable for 3U and

Peak Power	8.54 W
OC Voltage options	5.2 / 7.8 / 16.4 V
Suggested for	3U / 6U
Side	Lateral
Form Factor	3U Lateral XY
Mass	118 g
Protection	Dual redundant

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CORE-06Z 6U/8U Cubesat Top Solar panel

The CORE-06Z is a top solar panel designed for 6U/8U CubeSats, offering 4.9 W peak power and dual redundant protection.

Peak Power	4.9 W
OC Voltage options	5.2/10.4 V
Suggested for	6U/8U
Side	Top/Bottom
Form Factor	2x1
Mass	91 g
Protection	Dual redundant

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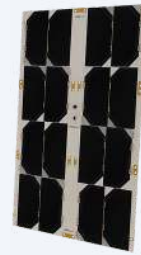
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CORE-08 4U/8U Cubesat Solar panel

The CORE-08 is a lateral solar panel designed for 4U/8U CubeSats, offering a peak power of 11W and multiple open-circuit voltage options.

Peak Power	11W
OC Voltage options	5.2/7.8/10.4/ 23.4 V
Suggested for	4U/8U
Side	Lateral
Form Factor	1x4
Mass	148 g
Protection	Dual redundant

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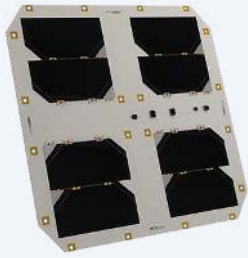
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CORE-12 6U/12U Cubesat Solar panel

The CORE-12 is a solar panel designed for 6U/12U CubeSats, offering proven performance in space with redundant power lines and ECSS compliance.

Peak Power	19.6W
OC Voltage options	10.4/20.8 V
Suggested for	6U/12U
Side	Lateral
Form Factor	2x3
Mass	289 g
Protection	Dual redundant

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2NDSpace SRL CORE-12Z

The CORE-12Z is a 12U/16U CubeSat top solar panel, offering reliable power generation with a peak power of 9.76 W and multiple voltage options.

Peak Power	9.76 W
OC Voltage options	5.2/10.4/ 20.8 V
Suggested for	12U/16U
Side	Top/Bottom
Form Factor	4x4
Mass	195 g
Protection	Dual redundant

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2NDSpace SRL CORE-16

The CORE-16 is an 8U/16U CubeSat solar panel designed for reliability and easy integration, offering multiple voltage options and customizable layouts.

Peak Power	24.4 W
OC Voltage options	10.4/13.0/ 26.0 V
Suggested for	8U/16U
Side	Lateral
Form Factor	2x4
Mass	380 g
Protection	Dual redundant

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2NDSpace SRL DROP Deployable Solar Panels

2NDSpace's DROP deployable solar panels offer a modular design with dual, triple, or multi-wing configurations and the option for solar cells on both sides, maximizing surface area

Form factor range	1U to 16U
Configuration	Dual, triple, or multi-wing
Solar cells	Single-sided or double-sided option
Design	Modular

[price on request](#)



2NDSpace SRL DROP-03 3U Deployable Solar panel

The DROP-03 is a deployable solar panel system designed for 3U and 6U CubeSats, offering a total power output of up to 22.5W with options for backstring and body-mounted cells.

Deployable elements	1
Deployment configuration	135°/90°
Front side power	7.5 W
Backstring option	+7.5 W
Body mounted option	+7.5 W
Total power	22.5 W
Peak platform power	22.5 W

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[datasheet](#)



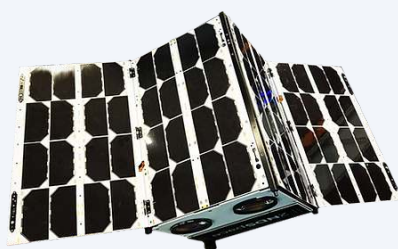
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DROP-08 8U/4U Deployable Solar panel

The DROP-08 is a deployable solar panel system designed for 8U/4U CubeSats, offering up to 30W of power with options for backstring and body-mounted configurations.

Deployable elements	1
Deployment configuration	135°/90°
Front side power	10 W
Backstring option	+10 W
Body mounted option	+10 W
Total power	30 W
Peak platform power	30 W

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



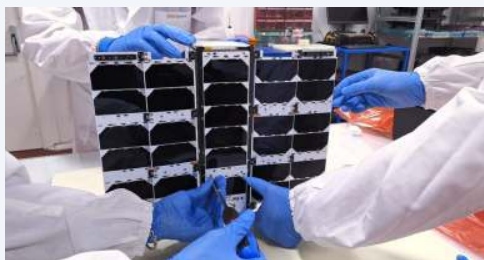
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DROP-12 12U Deployable Solar panel

The DROP-12 is a 12U deployable solar panel system designed for CubeSats, offering up to 60W of peak power with options for backstring and body-mounted configurations.

Deployable elements	1
Deployment configuration	135°/90°
Front side power	20 W
Backstring option	+20 W
Body mounted option	+20 W
Total power	60 W
Peak platform power	60 W

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DROP-16 8U/16U Deployable Solar panel

The DROP-16 is a deployable solar panel system designed for 8U/16U CubeSats, offering customizable power configurations and a dual redundant deployment system.

Suggested for	8U/16U
Deployment System	Dual redundant
Deployment Configuration	135°/90°
OC Voltage	24.3 V

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2NDSPACE SRL

MASTER Cubesat On-Board Computer

Dual-core CubeSat OBC with Cortex M7/M4 processors, OTA updates, FreeRTOS compatibility and rich I/O.

Processor	Dual core: Cortex M7 480 MHz + Cortex M4 240 MHz
Software	OTA update, FreeRTOS-compatible architecture
Communication interfaces	13x: CAN, RS422, RS485, UART, USART, I2C, SPI
Gpio	8x
ADC inputs	6x
Storage	2x SD storage memory
Ram	64 Mb Synchronous DRAM

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MASTER II Next Generation Satellite OBC

Next-generation modular OBC with dual-section hardware redundancy, PolarFire SoC, FPGA guardian supervision and on-demand edge AI.

Architecture	Modular, separated control and computing layers
Redundancy	Dual-section (A/B), active/standby or dual-active modes
Failover	Hardware-driven, deterministic, no software boot required
Supervision	Always-on Guardian FPGA: health monitoring, watchdog, reset, power-cycling
Processor	PolarFire SoC with integrated FPGA fabric
AI acceleration	On-demand Coral Edge TPU
RS-422/RS-485 interfaces	6x configurable

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MASTER-CHIEF Extended On-Board Computer

Extended CubeSat OBC adding an independent critical-data-management core with ECC RAM to the MASTER architecture.

Processor	Dual core: Cortex M7 480 MHz + Cortex M4 240 MHz
Critical data core	Independent Cortex M7 400 MHz
Critical data ram	1MB with ECC
Critical data program memory	2MB
Software	OTA update, FreeRTOS-compatible architecture
Communication interfaces	13x: CAN, RS422, RS485, UART, USART, I2C, SPI
High-speed interface	LVDS, >10Mbps

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MASTER, MASTER-CHIEF, MASTER-II Cubesat On-Board Computers

The MASTER series offers a range of On-Board Computers (OBCs) for CubeSats, featuring dual-core processors, various communication interfaces, and memory options. The MASTER-CHIEF p

Processor (MASTER)	Dual core (Cortex M7 480 MHz, Cortex M4 240 MHz)
Ota update (MASTER)	Yes
Os compatibility (MASTER)	FreeRTOS compatible
Communication interfaces (MASTER)	13 (CAN, RS422, RS485, UART, USART, I2C, SPI)
Gpio / ADC inputs (MASTER)	8x GPIO / 6x ADC inputs
Sd storage memory (MASTER)	2x
Synchronous dram (MASTER)	64 Mb

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OPER CubeSat Deployer

The OPER CubeSat Deployer is a lightweight and customizable separation system designed for CubeSats, featuring redundant non-pyrotechnic actuation and an easy reset procedure.

Form factor	12U/16U
Design	Lightweight
Lateral clearance	High
Customization	Available for OTV and launch service providers
Actuation	Redundant, non-pyrotechnic
Clamping mechanism	Dynamic
Reset procedure	Easy reset, no consumables

[price on request](#)



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OPERA 16U Cubesat Deployer

The OPERA Cubesat Deployer by 2NDSpace Srl features a lightweight design, high lateral clearance, and redundant non-pyrotechnic actuation for reliable CubeSat deployment.

[price on request](#)



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PRELUDE – EGSE Flatsat

PRELUDE offers multi-function EGSE modules, modular FlatSat platforms, and testpods for CubeSat-class units, designed for efficient integration, testing, and qualification in space

[price on request](#)



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SOLO Cubesat EPS

End-to-end power module for nanosatellites, combining power distribution, battery management and solar array conditioning.

Form factor range	1U to 27U
Functions	Power distribution, battery management, solar array conditioning
Architecture	Fault-tolerant, integrated PDCU
Battery packs	Modular, reconfigurable
Flight heritage	Yes

[price on request](#)



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SOLO-EPS-4

The SOLO-EPS-4 is a Cubesat Power Distribution and Control Unit (PDCU) and Battery Pack designed for 1U to 27U platforms, offering controllable power outputs and multiple MPPT inputs

Controllable power outputs	12x
Controlled voltage outputs	3.3V / 5.0V / 12V / 16V
MPPT Inputs	6x
Peak Power	100 W
Energy Storage	52 WHr
Mass	480g
Com Interface	RS485/UART/CAN/I2C

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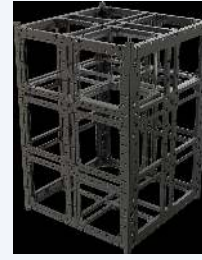
SOLO-EPS-8

The SOLO-EPS-8 is a CubeSat Power Distribution and Control Unit (PDCU) and Battery Pack designed for 1U to 27U platforms, offering controllable power outputs and integrated energy

Controllable power outputs	12x
Controlled voltage outputs	3.3V / 5.0V / 12V / 16V
MPPT Inputs	6x
Peak Power	160 W
Energy Storage	100 WHr
Mass	750g
Com Interface	RS485/UART/CAN/I2C

price on request

[datasheet](#)

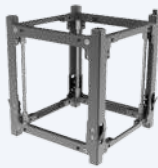


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VERSE Cubesat Structures

The VERSE series offers modular CubeSat structures from 1U to 16U, designed for high performance, versatility, and flight-proven reliability.

price on request



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VERSE CubeSat Structures

Modular CubeSat structures from 1U to 16U with flight-proven reliability and fully customizable interfaces.

Verse-01 form factor	1U, mass 90 g
Verse-02 form factor	2U, mass 195 g
Verse-03 form factor	3U, mass 290 g
Verse-06 form factor	6U, mass 690 g
Verse-08 form factor	8U, mass 890 g
Verse-12 form factor	12U, mass 1190 g
Verse-16 form factor	16U, mass 1520 g

price on request

[datasheet](#)



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VERSE-02 2U Cubesat Structure

The VERSE-02 is a 2U CubeSat structure designed for maximized ease of integration, enhanced structural performances, and flight-proven reliability.

Form factor	2U
Mass	195 g
Deployment switches	Up to 6

price on request

[datasheet](#)



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VERSE-03 3U Cubesat Structure

The VERSE-03 is a 3U CubeSat structure designed for ease of integration, enhanced structural performance, and flight-proven reliability, fully compliant with CDS interfaces.

Form factor	3U
Mass	290g
Deployment switches	Up to 6

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2NDSpace SRL

VERSE-06 6U Cubesat Structure

The VERSE-06 is a 6U CubeSat structure designed for maximized ease of integration and enhanced structural performances, offering flight-proven reliability and full compliance with

Form factor	6U
Mass	690g
Deployment switches	Up to 6

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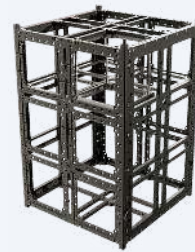
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VERSE-08 8U Cubesat Structure

The VERSE-08 is an 8U CubeSat structure designed for maximized ease of integration and access, offering enhanced structural performances and full compliance with CDS interfaces.

Form factor	8U
Mass	890g
Deployment switches	Up to 6

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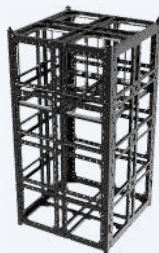
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VERSE-12 12U Cubesat Structure

The VERSE-12 is a 12U CubeSat structure designed for maximized ease of integration and access, offering enhanced structural performances and flight-proven reliability.

Form factor	12U
Mass	1190g

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VERSE-16 16U Cubesat Structure

The VERSE-16 is a 16U CubeSat structure designed for maximized ease of integration, enhanced structural performances, and flight-proven reliability.

Form factor	16U
Mass	1520g

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Contact 2NDSpace Srl

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

<https://newspacemarket.com/companies/2ndspace/>

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