

NEWSPACE MARKET · COMPANY PROFILE



# SkyFox Labs s.r.o.

Czech Republic · founded 2014 · skyfoxlabs.com

26

PRODUCTS

8

WITH DATASHEETS

[newspacemarket.com/companies/skyfox-labs-s-r-o/](https://newspacemarket.com/companies/skyfox-labs-s-r-o/)

as of 26 August 2026

## SkyFox Labs s.r.o.

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SkyFox Labs s.r.o. has been operating since 2014, growing out of the stalled CzechTechSat university CubeSat project into a self-funded commercial manufacturer of nano and pico-satellite subsystems. The company pioneered its Space-Friendly pi product line and BusCORE radio terminals, and was among the first to sell engineering-model grades and CE-marked CubeSat components. SkyFox Labs' flight heritage spans more than 300 products across over 135 missions, with hardware continuously operating in orbit since 2017, including the company's own Lucky-7 CubeSat, launched in 2019 and decayed in 2024. The company's product catalog spans GNSS, AIS and ADS-B patch antennas in numerous band and mount configurations, RF cabling, the BusCORE radio terminal and matching ground station, an ADCS magnetometer/gyroscope sensor (piMAGGYRO), a GPS navigation receiver (piNAV-NG), and payload instruments including an AIS receiver, a multi-sensor plasma instrument, an ADS-B receiver, a camera, and a dosimeter.

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

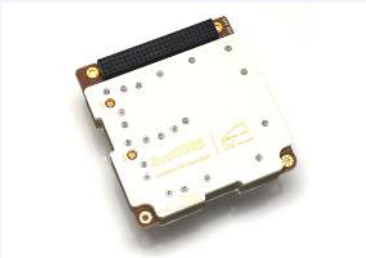


SKYFOX LABS S.R.O.  
**BusCORE Groundstation**

50 W UHF amateur-band groundstation terminal matching BusCORE satellite radios, with variable bitrate modem, RF monitor port and 3U 19-inch rack chassis.

|                      |                                                                      |
|----------------------|----------------------------------------------------------------------|
| Type                 | State-of-the-art Hardware Accelerated Satellite Communication System |
| Frequency band       | UHF 435.000-438.000 MHz (Amateur Radio Band)                         |
| Modulation / bitrate | 2GFSK, 1200-38400 bps variable                                       |
| RF output power      | 50 W SSPA @ 50 Ohms                                                  |
| Rx sensitivity       | -120 dBm @ 1200 bps 5% PER;<br>-106 dBm @ 38400 bps 5% PER           |
| Power requirement    | 13.8 V @ 8 A (50 W RF power out)                                     |
| Pc interface         | USB, 1,250,000 bps virtual COM port                                  |

\$9 790



SKYFOX LABS S.R.O.  
**BusCORE Satellite RF Terminal**

Dual cold-redundant UHF amateur-band satellite RF terminal with 2x 2MB MRAM buffers, variable bitrate up to 38.4 kbps and PC/104+ stack connector.

|                      |                                                            |
|----------------------|------------------------------------------------------------|
| Type                 | Dual Cold Redundant Satellite RF Terminal                  |
| Frequency band       | UHF 435.000-438.000 MHz (Amateur Radio Band)               |
| Modulation / bitrate | 2GFSK, 1200-38400 bps variable                             |
| Rx sensitivity       | -120 dBm @ 1200 bps 5% PER;<br>-106 dBm @ 38400 bps 5% PER |
| Rx power             | 3.0-3.6 V @ 33 mA (120 mW typical)                         |
| Tx power             | 3.0-3.6 V @ 1200 mA, +30 to +33 dBm RF output              |
| Data storage         | 2x 2 MB MRAM                                               |

\$5 990



SKYFOX LABS S.R.O.

### microPATCH-L1/FM (Flight Model)

The microPATCH-L1 is a long-term optimised CubeSat GPS Antenna specially designed for modern satellites, CubeSats and majority of University projects.

|              |                                                 |
|--------------|-------------------------------------------------|
| Part Number  | microPATCH-L1/FM (Flight Model)                 |
| Antenna Type | ACTIVE Antenna with LNA                         |
| SNR Signal   | Up to +50 dBc-Hz for close-to-zenith satellites |
| Dimensions   | 82x36 mm, low profile                           |
| Connector    | MCX connector                                   |
| Band         | GPS-L1 band                                     |
| TRL          | TRL9                                            |

flight proven · TRL 9 price on request



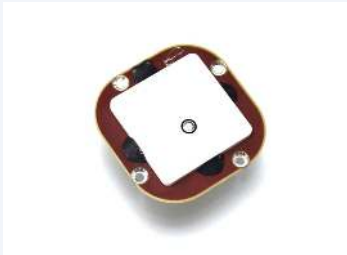
SKYFOX LABS S.R.O.

### miniPATCH-L1/FM (Flight Model)

The miniPATCH-L1 is a best-selling CubeSat GPS Antenna with timeless design, properties, and performance, used on various satellites from basic CubeSats up to complex multi-kilogra

|                |                                       |
|----------------|---------------------------------------|
| Dimensions     | 75x75 mm                              |
| Mass           | 40 grams (excluding mounting screws)  |
| TRL            | 9                                     |
| Power Supply   | 2.7 to 5.5 V, 3.3 V nominal @ ~ 20 mA |
| Dual Use Goods | YES                                   |
| HS Code        | 8529.10.69                            |
| Lead Time      | 2-4 Weeks + Shipping                  |

flight proven · TRL 9 price on request



SKYFOX LABS S.R.O.

### nanoPATCH-L1/FM (Flight Model)

The nanoPATCH-L1 is a long-term optimized CubeSat GPS Antenna specially designed for modern satellites, CubeSats and the majority of University projects.

|                |                                        |
|----------------|----------------------------------------|
| Dimensions     | 50x50 mm                               |
| GPS Band       | L1                                     |
| TRL            | 9                                      |
| Power Supply   | 2.7 to 5.5 V (3.3 V nominal @ ~ 20 mA) |
| Dual Use Goods | YES                                    |
| HS Code        | 8529.10.69                             |
| Lead Time      | 2-4 weeks + Shipping                   |

flight proven · TRL 9 price on request



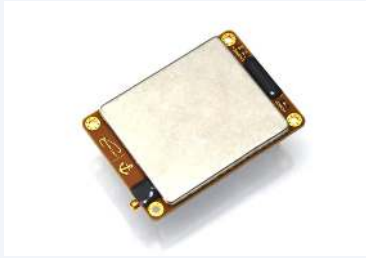
SKYFOX LABS S.R.O.

### piADSB-NG/FM (Flight Model)

The piADSB-NG is a Next Generation CubeSat ADS-B Air Traffic Control (ATC) Receiver based on freely available 1090ES Squitters transmitted from aircrafts.

|                   |                                  |
|-------------------|----------------------------------|
| Sensitivity       | up to -106 dBm ( $10^{-2}$ BER)  |
| Slant Range       | Up to 2000 km                    |
| Altitude          | up to 75000 fpm                  |
| Intended to       | LEO up to h = 600 km             |
| TRL               | 9                                |
| Power Requirement | 2.7-3.6 V @ 75 mA (250 mW)       |
| UART              | 1.25 Mbps-8-N-1, 3V3-CMOS levels |

flight proven · TRL 9 price on request



**SKYFOX LABS S.R.O.**  
**piAIS/FM (Flight Model)**

The piAIS is a World's First Space-Friendly™ True 2-Channel Dual Band CubeSat AIS Receiver working in VHF band as Maritime Automatic Identification System Monitor.

|                        |                                    |
|------------------------|------------------------------------|
| Power Requirement      | 3.0-3.6 V @ 65 mA (210 mW typical) |
| UART                   | 115200-8-N-1, 3V3-CMOS levels      |
| Dimensions             | 76x53x12 mm                        |
| Wide Temperature Range | -40°C to +85°C                     |
| Low mass               | 55 grams                           |
| Lead Time              | 2-4 weeks + Shipping               |
| Country of Origin      | Czech Republic                     |

price on request



**SKYFOX LABS S.R.O.**  
**piCAM/FM (Flight Model)**

The piCAM/FM is a space-friendly digital CubeSat camera designed to capture images of celestial bodies, docking satellites, or deployable structures, offering easy integration and

|                    |                                         |
|--------------------|-----------------------------------------|
| Resolution         | VGA                                     |
| Data Output        | JPEG in ASCII HEX format                |
| Connector          | 6 pin Molex                             |
| Serial Bitrate     | 1k2 to 921k6 selectable (115k2 Default) |
| Image Capture Time | Within 5 seconds                        |
| Dimensions         | 33x33x19 mm body + optics               |
| Mounting Bracket   | 48x33 mm with 4x M2.5 mounting holes    |

flight proven · TRL 9 price on request

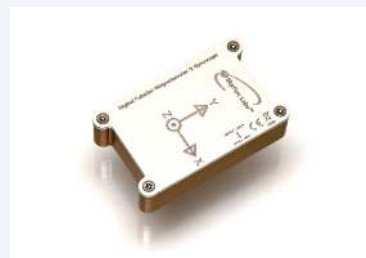


**SKYFOX LABS S.R.O.**  
**piDOSE-DCD/FM (Flight Model)**

The piDOSE-DCD is the industry's first digital CubeSat dosimeter (Geiger Counter), designed to provide information about local gamma ray radiation background aboard small satellite

|                           |                                         |
|---------------------------|-----------------------------------------|
| Part Number               | piDOSE-DCD/FM (Flight Model)            |
| Space Weather Alarm (SWA) | triggered over 40 uSv/h                 |
| Trigger set to            | 2x ISS Average Dose Rate                |
| Use                       | Orbital and High Altitude Balloon (HAB) |
| TRL                       | 9                                       |
| Alarm                     | Immediate (within 1 second only!)       |
| Data Output               | UART                                    |

flight proven · TRL 9 price on request



**SKYFOX LABS S.R.O.**  
**piMAGGYRO**

Non-deployable digital tri-axial CubeSat magnetometer and gyroscope with telemetry engine, 10 Hz update rate over UART.

|                                 |                                                       |
|---------------------------------|-------------------------------------------------------|
| Type                            | Digital CubeSat Tri-axial Magnetometer and Gyroscope  |
| Magnetic field range            | +/-300,000 nT per axis (0-519,615 nT total field max) |
| Magnetic field resolution/noise | 6 nT resolution, 35 nTrms noise (total field)         |
| Angular rate range              | +/-250 deg/s per axis, 1 deg/s resolution             |
| Update rate                     | 10 Hz                                                 |
| Interface                       | UART, 115200 bps-8-N-1, LVCMOS                        |
| Power                           | 2.8-3.6 V, 14 mA, 50 mW                               |

\$3 290 datasheet

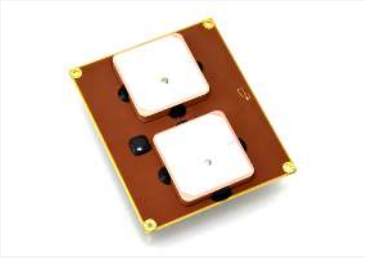


SKYFOX LABS S.R.O.  
**piNAV-NG/FM (Flight Model)**

The piNAV-NG/FM (Flight Model) is a 15 Channel GPS L1 C/A Receiver with a long-term optimized firmware based on many years of orbital operations heritage intended for every satelli

|                               |                                                                        |
|-------------------------------|------------------------------------------------------------------------|
| Power consumption             | 125 mW (typical), 3.3 V @ 25°C                                         |
| GPS signal                    | L1 C/A, 15 channels                                                    |
| LEO operation altitude        | up to 3600 km                                                          |
| Velocity                      | up to 9 km/s                                                           |
| Cold Start Time in LEO (TTFF) | 80 seconds (typical)                                                   |
| Warm Start Time in LEO        | 50 seconds (typical)                                                   |
| Sensitivity                   | Acquisition 38 dBc-Hz, Tracking 25 dBc-Hz, Short term fading 18 dBc-Hz |

flight proven · TRL 9 price on request

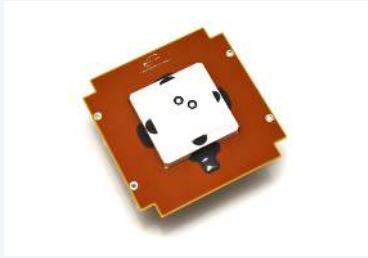


SKYFOX LABS S.R.O.  
**piPATCH-ADSB**

High-gain, non-deployable CubeSat ADS-B antenna covering the 1090 MHz band via a single RF port for space-borne aircraft tracking.

|                     |                                                               |
|---------------------|---------------------------------------------------------------|
| Type                | High Gain Non-Deployable ADS-B Antenna                        |
| Operating frequency | 1090 MHz (center), 50 Ohms                                    |
| RF port             | Single RF port                                                |
| Dimensions          | 98x82.6x(+8/-4) mm, low profile, MCX-F connector              |
| Mass                | 115 g (excluding mounting screws)                             |
| Mounting            | fits deployers with 10 mm side protrusions (e.g. Exopod Nova) |
| Dual use goods      | YES                                                           |

\$2 390 datasheet



SKYFOX LABS S.R.O.

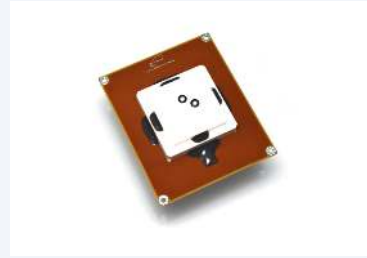
### piPATCH-AllBand-TC

Active All-Band CubeSat GNSS patch antenna covering GPS L1/L2/L5, GLONASS G1/G2/G3, Galileo E1/E5a/E5b/E6 and BeiDou B1/B2a/B2b for Tuna-Can CubeSat deployers.

|                |                                                                                   |
|----------------|-----------------------------------------------------------------------------------|
| Type           | Active All-Band CubeSat GNSS Antenna with LNAs                                    |
| Bands covered  | GPS L1, L2, L5; GLONASS G1, G2, G3; Galileo E1, E5a, E5b, E6; BeiDou B1, B2a, B2b |
| GPS L1 SNR     | 49-51+ dBc-Hz (close-to-zenith)                                                   |
| GPS L2 SNR     | 45-50+ dBc-Hz (close-to-zenith)                                                   |
| GPS L5 SNR     | 45-50+ dBc-Hz (close-to-zenith)                                                   |
| Glonass g1 SNR | 45-53+ dBc-Hz (close-to-zenith)                                                   |
| Galileo e1 SNR | 48-51+ dBc-Hz (close-to-zenith)                                                   |

\$3 490

[datasheet](#)



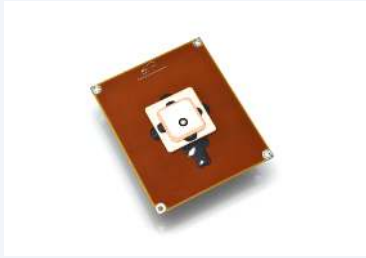
SKYFOX LABS S.R.O.

### piPATCH-AllBand/FM (Flight Model)

Space-Friendly™ GNSS ALL BAND Antenna for maximum precision out of your GNSS Equipment onboard, enabling a new level of navigation.

|                   |                                        |
|-------------------|----------------------------------------|
| Dimensions        | 98x82.6 mm                             |
| Mass              | 133 grams                              |
| Power Supply      | 2.7 to 5.5 V (3.3 V nominal @ ~ 30 mA) |
| HS Code           | 8529.10.69                             |
| Lead Time         | 2-4 Weeks + Shipping                   |
| Country of Origin | Czech Republic                         |

price on request



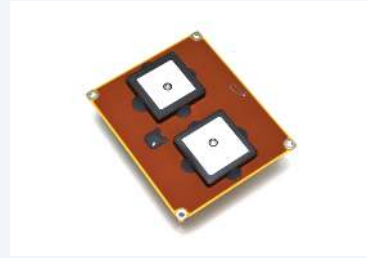
SKYFOX LABS S.R.O.

### piPATCH-DualBand/FM (Flight Model)

The piPATCH-DualBand is a high-quality, high-gain antenna with low noise, low profile, RF filters, and a uniform hemispherical radiation pattern, ideal for CubeSat GNSS application

|                |                                                                            |
|----------------|----------------------------------------------------------------------------|
| Dimensions     | 98x82.6 mm                                                                 |
| Mass           | 75 grams                                                                   |
| Power Supply   | 2.7 to 5.5 V (3.3 V nominal @ ~30 mA)                                      |
| Bands Covered  | GPS L1, GPS L2, GLONASS G1, Galileo E1, Galileo E5b, BeiDou B1, BeiDou B2b |
| RF Path Gains  | better than +16 dB                                                         |
| Connector      | MCX-F                                                                      |
| Dual Use Goods | YES                                                                        |

price on request



SKYFOX LABS S.R.O.

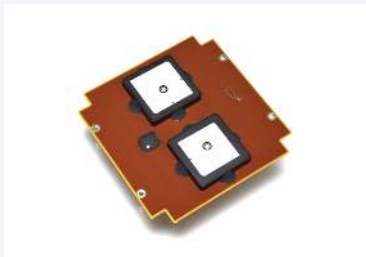
### piPATCH-IoT

High-gain All-Band CubeSat IoT antenna covering the 868/915 MHz ISM/LoRa/SigFox bands via a single RF port, for X/Y +/- side mount.

|                   |                                                        |
|-------------------|--------------------------------------------------------|
| Type              | All Band CubeSat IoT/ISM/LoRa/SigFox Antenna           |
| Bands             | 868 MHz (center), 915 MHz (center)                     |
| RF port           | Single RF port for TX and RX                           |
| RF power handling | up to 5 W RF output power                              |
| Dimensions        | 98x82.6x(+7/-4) mm, low profile, MCX-F connector       |
| Mass              | 70 g (excluding mounting screws)                       |
| Mounting          | X/Y +/- side mount, at least 10+ mm CubeSat protrusion |

\$2 390

[datasheet](#)



SKYFOX LABS S.R.O.

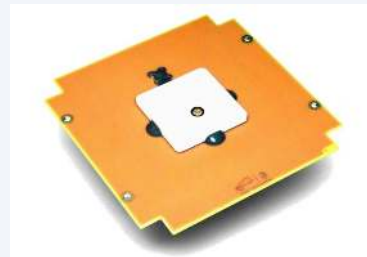
### piPATCH-IoT-TC

High-gain All-Band CubeSat IoT antenna covering the 868/915 MHz ISM/LoRa/SigFox bands, Z-face mount for Tuna-Can (Exopod Nova) deployers.

|                   |                                                         |
|-------------------|---------------------------------------------------------|
| Type              | All Band CubeSat IoT/ISM/LoRa/SigFox Antenna            |
| Bands             | 868 MHz (center), 915 MHz (center)                      |
| RF port           | Single RF port for TX and RX                            |
| RF power handling | up to 5 W RF output power                               |
| Dimensions        | 98x98x(+7/-4) mm, low profile, MCX-F connector          |
| Mass              | 75 g (excluding mounting screws)                        |
| Mounting          | Exopod Nova Tuna Can protrusion, 92 mm diameter, Z-face |

\$2 390

[datasheet](#)



SKYFOX LABS S.R.O.

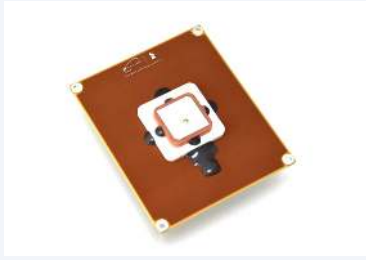
### piPATCH-L1E1/FM (Flight Model)

A high gain CubeSat GNSS Antenna supporting both GPS and GALILEO constellation receiver equipment (GPS-L1, GALILEO-E1), ideal for Nadir/Zenith oriented satellites.

|                |                                        |
|----------------|----------------------------------------|
| Dimensions     | 98x98 mm, low profile, MCX-F connector |
| Mass           | 50 grams (excluding mounting screws)   |
| TRL            | 9                                      |
| Power Supply   | 2.7 to 5.5 V, 3.3 V nominal @ ~ 20 mA  |
| Dual Use Goods | YES                                    |
| HS Code        | 8529.10.69                             |
| Lead Time      | 2-4 Weeks + Shipping                   |

flight proven · TRL 9

price on request



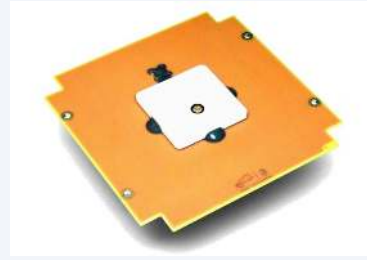
SKYFOX LABS S.R.O.

### piPATCH-L1L2/FM (Flight Model)

A high-gain CubeSat GNSS antenna supporting GPS, GLONASS, Galileo, and BeiDou constellations, ideal for Nadir/Zenith oriented satellites.

|                      |                                                   |
|----------------------|---------------------------------------------------|
| Mass                 | 70 grams                                          |
| Dimensions           | 98x82.6 mm                                        |
| Power Supply         | 2.7 to 5.5 V (3.3 V nominal @ ~30 mA)             |
| Bands Covered        | GPS L1, GPS L2, GLONASS G1, Galileo E1, BeiDou B1 |
| Dual Frequency Bands | L1 + L2 (1575.42-1602 MHz + 1227.60 MHz)          |
| RF path gains        | +16 dB                                            |
| Connector            | MCX-F                                             |

price on request



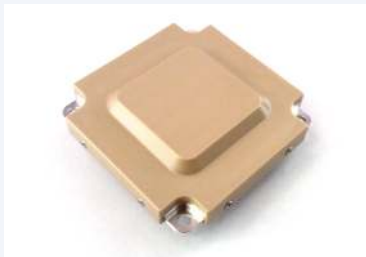
SKYFOX LABS S.R.O.

### piPATCH-LG/FM (Flight Model)

A high gain CubeSat GPS/GLONASS antenna with low noise, RF filters, and uniform radiation pattern, ideal for Z+/- CubeSat wall mounting.

|                |                                       |
|----------------|---------------------------------------|
| Dimensions     | 98x98 mm, low profile                 |
| Mass           | 50 grams (excluding mounting screws)  |
| TRL            | 9                                     |
| Power Supply   | 2.7 to 5.5 V, 3.3 V nominal @ ~ 20 mA |
| Connector      | MCX-F                                 |
| Dual Use Goods | YES                                   |
| HS Code        | 8529.10.69                            |

flight proven · TRL 9 price on request



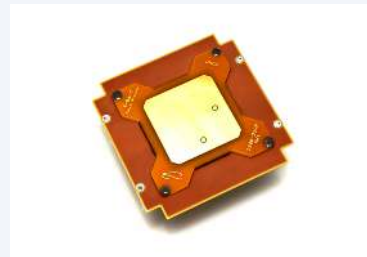
SKYFOX LABS S.R.O.

### piPATCH-MAX/FM (Flight Model)

A high-quality, multi-constellation GNSS antenna with low noise, RF filters, high gain, and appropriate radiation pattern, designed for microsatellites operating in direct sunny an

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| Mass               | 89 grams (excluding mounting screws)                |
| Dimensions         | 74x74x13 mm                                         |
| Power Supply       | 2.7 to 5.5 V (3.3 V nominal @ ~ 20 mA)              |
| SNR                | 50+ dBc-Hz on ground for close-to-zenith satellites |
| Cover Material     | PEEK                                                |
| Baseplate Material | 6061-T6 Aluminum                                    |
| Connector          | Female SMA straight RF                              |

flight proven · TRL 9 price on request



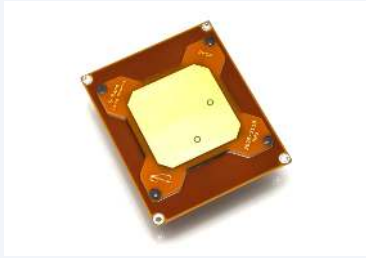
SKYFOX LABS S.R.O.

### piPATCH-S-DL

ZeroCore CubeSat S-band patch antenna for RHCP downlink, tuned to the whole 2200-2290 MHz S-downlink band, in X/Y or Z mount.

|                  |                                                       |
|------------------|-------------------------------------------------------|
| Type             | CubeSat S-Band Patch Antenna, RHCP Downlink           |
| Frequency range  | 2200-2290 MHz                                         |
| Power handling   | 10 W CW (open space)                                  |
| Rhcp gain        | +4.7 dBd / +5.55 dBiC (front lobe)                    |
| Linear mode gain | +7.8 dBd (front lobe)                                 |
| Gain flatness    | +/- 1 dB over band                                    |
| Axial ratio      | better than 1 dB (+/-45 deg), 0/90 deg phasing hybrid |

\$2 390 datasheet



SKYFOX LABS S.R.O.

### piPATCH-S-UL

ZeroCore CubeSat S-band patch antenna for RHCP uplink, tuned to the whole 2025-2110 MHz S-uplink band, in X/Y or Z mount.

|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Type                  | CubeSat S-Band Patch Antenna, RHCP Uplink              |
| Frequency range       | 2025-2110 MHz                                          |
| Rhcp gain             | +4.7 dBd / +5.55 dBiC (front lobe)                     |
| Linear mode gain      | +7.8 dBd (front lobe)                                  |
| Gain flatness         | +/- 1 dB over band                                     |
| Axial ratio           | better than 1 dB (+/-45 deg), 0/90 deg phasing hybrid  |
| Impedance / connector | 50 Ohm, MCX-Female right angle (SMA-Female on request) |

\$2 390

[datasheet](#)



SKYFOX LABS S.R.O.

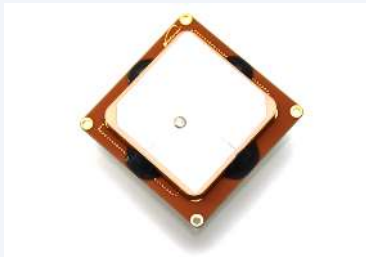
### piPLASMA/FM (Flight Model)

The piPLASMA is the World's First Space-Friendly™ CubeSat Space Flight and Weather Monitor unit intended for in-situ orbital and environmental measurements.

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| TRL               | 9                                                                                         |
| Power consumption | 165 to 640 mW, 3.3 V, mode dependent                                                      |
| Connectors        | PC/104+ pin header (System Interface), 3x MCX (GPS Antenna, Langmuir Probe, Photoelectric |
| Mass              | 128 grams                                                                                 |
| Lead Time         | 2-4 Weeks + Shipping                                                                      |
| Country of Origin | Czech Republic                                                                            |

flight proven · TRL 9

price on request



SKYFOX LABS S.R.O.

### pqADSB-NG

Next-generation PocketQube ADS-B (1090 MHz) air-traffic receiver with embedded non-deployable antenna array and improved-sensitivity RF chain.

|                  |                                                                            |
|------------------|----------------------------------------------------------------------------|
| Type             | PocketQube ADS-B System with Embedded Antenna Array                        |
| Function         | Automatic Dependent Surveillance-Broadcast (ADS-B) Receiver, Mode-S 1090ES |
| Frequency        | 1090 MHz                                                                   |
| Downlink formats | DF11, DF17 (56-bit / 112-bit extended squitters + CRC)                     |
| Sensitivity      | up to -106 dBm (10^-2 BER)                                                 |
| Coverage         | up to 1600 km slant range, up to 75,000 fpm, LEO up to h=500+ km           |
| Power            | 2.7-3.6 V @ 75 mA (250 mW)                                                 |

\$3 900

[datasheet](#)



SKYFOX LABS S.R.O.

### RF Pigtail Cable/FM (Flight Model)

Space-Friendly™ RF Coaxial Cable, an essential part of each RF equipment chain, custom-made with TRL-9 crimping quality and available with various connectors and lengths.

|                 |                                                |
|-----------------|------------------------------------------------|
| Part Number     | RF Pigtail/FM (Flight Model)                   |
| Product Summary | RF Coaxial Cable                               |
| Impedance       | 50 Ohms                                        |
| Connectors      | Crimped with MMCX-M, MCX-M or SMA-M connectors |
| Connector Type  | Straight or Right Angle                        |
| Custom Length   | L up to 500 mm tip-to-tip, longer on request   |
| TRL             | 9                                              |

flight proven · TRL 9

price on request

## Contact SkyFox Labs s.r.o.

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/skyfox-labs-s-r-o/>

<https://www.skyfoxlabs.com>