



WiRan

Poland · founded 2002 · wiran.pl

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WiRan

WiRan Sp. z o.o. is a Polish RF and microwave technology company headquartered in Gdynia (Trójmiasto region), founded in 2002, with over 20 years of experience designing RF components, wireless communication systems, and EMC testing services for aerospace, maritime, railway, and IoT industries. The company's product portfolio includes L-band, S-band, X-band, and Ku-band RF components (splitters, couplers, diplexers, antennas), with space products under development including an S-band diplexer (DSE, 5W corona-free) and Ku-band dual polarisation filter (100W), complemented by full EMC pre-certification laboratory services with Faraday cage and climate chamber facilities. WiRan offers "R&D as a Service" and hardware design services enabling rapid time-to-market for customers requiring custom RF and microwave solutions. For CubeSat and small satellite communication payloads, WiRan has developed a flight-proven (TRL9) family of nanosatellite RF components covering L-band, S-band, and X-band, including patch antennas, diplexers, power splitters, hybrid couplers, and test caps. Several of these products, such as the X-Band Diplexer, were designed under the supervision of the European Space Agency. WiRan is a member of the Polish Space Industry Association and participates in EU-funded regional development projects supporting its R&D infrastructure.

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.

SERVICES

Services

Electromagnetic simulations

WiRan provides electromagnetic simulations to analyze and predict the behavior of electronic designs, contributing to optimized product performance.

Feasibility studies and fast prototyping

WiRan offers feasibility studies and rapid prototyping services, including electronic design, measurements, and specialized RF/Microwave expertise, to quickly develop working prototypes from initial t

IoT solutions (engineering, prototyping, Firmware development)

WiRan provides end-to-end IoT solutions, covering engineering, prototyping, and firmware development for technologies like LoRa, NB-IoT, and LTE-M, helping integrators validate, test, and build their

Laboratory for electromagnetic compatibility (EMC) testing

WiRan operates an in-house laboratory equipped with a climatic chamber and Faraday cage to perform electromagnetic compatibility (EMC) testing, ensuring product quality and compliance.

R&D as a Service (R&DaaS)

WiRan acts as an R&D as a Service provider, guiding projects from initial technical specifications to working prototypes, including all necessary testing and validation to accelerate time to market.

Product catalogue



WIRAN
L-BAND COUPLER

The WiRan 90° Hybrid Coupler for L-band frequencies splits an input RF signal equally between two output ports with a 90-degree phase shift, or combines 90-degree phase shifted sig

Flight Models availability in days/weeks, depending on specific requirements

price on request datasheet



WIRAN
L-BAND SPLITTER

The WiRan L-Band Splitter is a power divider designed for CubeSat nanosatellites, enabling the splitting of RF power into two channels with excellent phase and amplitude balance.

Compliance CubeSat nanosatellite standard

Housing material alodine coated lightweight aluminum

Availability Flight Models available in days/weeks, depending on specific requirements

Technical data STEP file, S-Parameters available on request (contact us)

price on request datasheet



WIRAN

S-Band Coupler

The WiRan 90° Hybrid Coupler is designed for splitting an input RF signal equally between two output ports with a 90-degree phase shift, or combining 90-degree phase shifted signal

Flight Models available in days/weeks, depending on specific requirements

price on request datasheet



WIRAN

S-Band Diplexer

WiRan's S-Band Diplexer enables full-duplex satellite communication over a single antenna, separating RX and TX paths within the 2025-2290 MHz band.

Operating frequency band 2025-2290 MHz

Variants A and B, covering entire 2025-2290 MHz range, no tuning required

Housing Aluminium, mechanical-shock- and temperature-resistant

CubeSat compliance Compliant with the CubeSat nanosatellite standard

Compatibility Fully compatible with WiRan S-Band antenna

Engineering Model availability Available within single days

Flight Model availability Available in days/weeks, depending on specific requirements

price on request datasheet



WIRAN

S-BAND SPLITTER

The WiRan S-Band Splitter is a power divider designed for CubeSat nanosatellites, splitting RF power into two channels with excellent phase and amplitude balance, low insertion loss

compliant with CubeSat nanosatellite standard

housing alodine coated lightweight aluminum

compatibility other WiRan S-Band products (diplexer, antenna)

operational temperature range wide

price on request datasheet



WIRAN

S-Band Test Cap

The WiRan S-Band Test Cap is a precision-engineered accessory for full-duplex testing of S-band antennas on satellites, operating within the 2025–2290 MHz frequency range.

Frequency range 2025-2290 MHz

Return Loss >15 dB

Gain Avg. -25 dB

Flatness ±2 dB

Power Handling 10 Watt

Shielding effectiveness 12 dB

Operating Temperature 0-40 °C

price on request datasheet



WIRAN

WiRan 90° Hybrid Couplers

WiRan 90° Hybrid Couplers are compact X-band devices designed for splitting an input RF signal equally between two output ports with a 90-degree phase shift, or combining phase-shi

Flight Models available in days/weeks, depending on specific requirements

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



WIRAN

WiRan S-Band antenna

The WiRan S-Band antenna provides full-duplex communication for data transmission and TM&TC, operating in the 2025-2290 MHz band with good polarization quality over a broad bea

Frequency Band	2025-2290 MHz
Polarization	RHCP by default (LHCP available)
Compliance	CubeSat nanosatellite standard
Coverage	Entire S-Band, omnidirectional (with 2 antennas + splitter for nano/microsatellite)
Communication Type	Full-duplex
Availability (Engineering Models)	Within single days
Availability (Flight Models)	In days/weeks, depending on specific requirements

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



WIRAN

WiRan X-Band Antenna

The WiRan X-Band Antenna is a compact, full-duplex antenna designed for data transmission and swarm radiocommunication in the X-band, compatible with CubeSat nanosatellites.

Operating Bands	7145-7235 & 8000-8500 MHz
Compatibility	CubeSat nanosatellite standard
Polarization	RHCP by default
Availability	First Engineering Models expected in 2021/22

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



WIRAN

X-Band Diplexer DXA

WiRan's X-Band Diplexer (DXA) enables full-duplex X-band communication for CubeSats, combining/separating transmit and receive signals for data downlink and swarm radiocommunicatio

Operating frequency band	7145-8500 MHz
Isolation	>80 dB
CubeSat standard compliance	Compliant with the CubeSat nanosatellite standard
Design supervision	Designed under supervision of European Space Agency
Documentation	STEP files, S parameters available on request

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



WIRAN
X-BAND DIPLEXER DXB

The WiRan X-Band Diplexer DXB enables full-duplex communication for data transmission and swarm radiocommunication in the X-band, specifically designed for CubeSat nanosatellites.

RX frequency range (UL)	7145-7235
TX frequency range (DL)	8350-8500
Isolation in TX and RX (min/typical)	>80 / 95
Insertion Loss at TX and RX (max)	<1
Insertion Loss at TX (typical)	0.85
Insertion Loss at RX (typical)	0.75
Return Loss all ports (min/typical)	>17 / 23

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WIRAN
X-Band Splitter

The WiRan X-Band Splitter is a power divider designed for CubeSat nanosatellites, enabling the splitting of RF power into two channels with excellent phase and amplitude balance.

Compliance	CubeSat nanosatellite standard
Housing material	Alodine coated lightweight aluminum
Availability	Flight Models available in days/weeks, depending on specific requirements
Technical data	STEP file, S-Parameters available on request (contact us)

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

Contact WiRan

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.

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