

4G LTE IRIDIUM DAB DMB DVBT AIS VARIABLE DIPOLES

Catalogue



WWW.2J-ANTENNAE.COM



Introduction

ZJ is a worldwide supplier of antenna solutions casting our net over Automotive, Marine, Telematic, Automation and M2M markets.

With our two RF development sites in the UK and Slovakia, we have developed a reputation for engineering excellence and self-sufficiency, allowing us to provide rapid custom antenna solutions, supplementing our extensive range of off-the-shelf antenna.

We utilise a plethora of modern engineering tools, from network analysers and anechoic chambers, to simulation software and 3D printers. These tools help reduce design phases, and enable us to react to our customers' needs promptly and efficiently.

Our ISO/TS16949:2009 certified production site in Central Europe ensures production of the highest quality products. Our antennas are all manufactured under the RoHS directive and are REACH compliant. Plastic injection, SMD pick and place, product assembly and quality control are all carried out in house, aiding us to be flexible in manufacturing and provide competitively priced products.

Our close-knit team of engineers and commercial personnel have established strong bonds with customers and suppliers, ensuring a good communication of needs, requirements and solutions.

Ensuring the continued development of products to meet the rapidly evolving wireless world remains our primary focus, be it for 4G (LTE), Iridium communications or Galileo satellite based applications. We work closely with technological innovators to ensure that we have a clear vision for future projects, maintaining our strong position in commercial antenna design.



2J UK



2J Slovakia



Made in Europe

ISO/TS 16949:2009
Automotive standards

EN ISO 14001:2004
Environmental



Customisation



RF measurement



3D anechoic chambers



EM Simulations



Prototyping service



3D printing



Plastic injection



Coaxial cable assembly

Note: Cable types, lengths, connector types and housing colour upon request.



4G/LTE 2J6A24B



LTE (Cable 1)

Frequencies	4G/LTE (791-960 / 1710-2690 MHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	2 dBi Max.
VSWR	< 2.5:1
Power handling	25 W

General specification

IP certificate	IP67, IK09, IP69K
Dimensions	65.5 x 77.3 mm (H x D)
Operating temperature	-40 °C to +85 °C

4G/LTE MIMO 2J6A24Ba



LTE (Cable 1)

Frequencies	4G/LTE (699-960 / 1710-2170 / 2500-2690 MHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	3 dBi typ.
VSWR	699-960 MHz < 5:1 / 1710-2690 MHz < 3:1
Power handling	25 W

General specification

IP certificate	P67, IK09, IP69K
Dimensions	65.5 x 77.3 mm (H x D)
Operating temperature	-40 °C to +85 °C

LTE (Cable 2)

Frequencies	4G/LTE (699-960 / 1710-2170 / 2500-2690 MHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	3 dBi typ.
VSWR	699-960 MHz < 5:1 / 1710-2690 MHz < 3:1
Power handling	25 W

4G/LTE, GPS/GLONASS

2J6A41BG



LTE (Cable 1)

Frequencies	4G/LTE (791-960 / 1710-2690 MHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	2 dBi Max.
VSWR	< 2.5:1
Power handling	25 W

Navigation (Cable 2)

Frequencies	GPS/GLONASS (1572-1610 MHz)
Impedance	50 Ohms
Polarisation	RHCP
LNA Gain	23 dB at 3V / 24 dB at 5 V
VSWR	< 1.2:1
Voltage supply	2,7 V - 5,5 V
Current	15 mA to 25 mA
Power (max.)	138 mW

General specification

IP certificate	P67, IK09, IP69K
Dimensions	65.5 x 77.3 mm (H x D)
Operating temperature	-40 °C to +85 °C



4G/LTE MIMO, GPS/GLONASS

2J6A41BGa



LTE (Cable 1)

Frequencies	4G/LTE (699-960 / 1710-2170 / 2500-2690 MHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	3 dBi typ.
VSWR	699-960 MHz < 5:1 1710-2690 MHz < 3:1
Power handling	25 W

LTE (Cable 2)

Frequencies	4G/LTE (699-960 / 1710-2170 / 2500-2690 MHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	3 dBi typ.
VSWR	699-960 MHz < 5:1 1710-2690 MHz < 3:1
Power handling	25 W

Navigation (Cable 3)

Frequencies	GPS/GLONASS (1572-1610 MHz)
Impedance	50 Ohms
Polarisation	RHCP
LNA Gain	23 dB at 3V/24 dB at 5 V
VSWR	< 1.2:1
Voltage supply	2,7 V - 5,5 V
Current	15 mA to 25 mA
Power (max.)	138 mW

General specification

IP certificate	IP67, IK09, IP69K
Dimensions	65.5 x 77.3 mm (H x D)
Operating temperature	-40 °C to +85 °C

4G/LTE
2JW0124



Frequencies	4G/LTE (699-960 / 1710-2690 MHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	3 dBi Ave.
VSWR	<3:1 ; <5:1 at 2500-2690MHz

General specification

Dimensions	196 x 38 x 13.8 mm (H x W x T)
Operating temperature	-40 °C to +85 °C

4G/LTE
2J680

2J680M
2J680P
2J680B

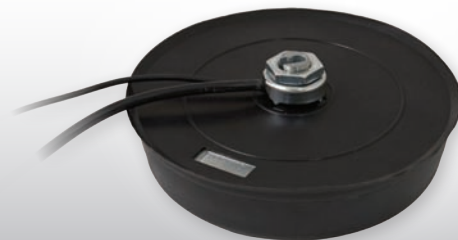


Frequencies	4G/LTE (791-960 / 1710-2690 MHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	2 dBi Max.
VSWR	< 2.5:1
Power handling	25 W

General specification

Dimensions	117 x 38 x 49.5 mm (L x H x W)
Operating temperature	-40 °C to +85 °C

4G/LTE, GPS
2J6541B
2J6541M



LTE (Cable 1)

Frequencies	4G/LTE (791-960 / 1710-2690 MHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	5 dBi
VSWR	< 6:1
Power handling	50 W

Navigation (Cable 2)

Frequencies	GPS (1575.42 MHz)
Impedance	50 Ohms
Noise figure	1.15 dB
Polarisation	RHCP
LNA Gain	23 dB at 3V, 24 dB at 5V
Voltage supply	2.7 V - 5.5 V
Current	15 mA – 25 mA
Power (max.)	138 mW

General specification

IP certificate	IP67, IK09, IP69K
Dimensions	Body mount: 146 x 32 mm (D x H) Magnetic: 135.5 x 30 mm (D x H)
Operating temperature	-40 °C to +85 °C

4G/LTE MIMO, GPS

2J6541Ba

2J6541Ma



LTE (Cable 1)

Frequencies	4G/LTE (791-960 / 1710-2690 MHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	5 dBi
VSWR	< 6:1
Power handling	25 W

LTE (Cable 2)

Frequencies	4G/LTE (791-960/1710-2690 MHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	5 dBi
VSWR	< 6:1
Power handling	25 W

Navigation (Cable 3)

Frequencies	GPS (1575.42 MHz)
Impedance	50 Ohms
Polarisation	RHCP
LNA Gain	23 dB at 3V 24 dB at 5V
Voltage supply	2.7 V - 5.5 V
Current	15 mA to 25 mA
Power (max.)	138 mW

General specification

IP certificate	IP67, IK09, IP69K
Dimensions	Body mount: 146 x 32 mm (D x H) Magnetic: 135.5 x 30 mm (D x H)
Operating temperature	-40 °C to +85 °C



4G/LTE MIMO

2J6524Ba

2J6524Ma



LTE (Cable 1)

Frequencies	4G/LTE (791-960 / 1710-2690 MHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	5 dBi Max.
VSWR	< 6:1
Power handling	50 W

LTE (Cable 2)

Frequencies	4G/LTE (791-960 / 1710-2690 MHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	5 dBi Max.
VSWR	< 6:1
Power handling	50 W

General specification

IP certificate	IP67, IK09, IP69K
Dimensions	Body mount: 146 x 32 mm (D x H) Magnetic: 135.5 x 30 mm (D x H)
Operating temperature	-40 °C to +85 °C

4G/LTE with diagnostic resistor

2J520R



Frequencies	4G/LTE (791-960 / 1710-2690 MHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	2.14 dBi
VSWR	Full 4G/LTE < 5:1 / Europe: < 2:1
Power handling	25 W
Note	With 10k diagnostic resistor

General specification

Dimensions	6.7 x 12.5 x 17.4 mm (H x W x L)
Operating temperature	-40 °C to +85 °C

4G / LTE **2J540**



Frequencies	4G/LTE (699-960 / 1710 / 2690 MHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	2.14 dBi
VSWR	< 3.6:1
Power handling	50 W

General specification

Dimensions	11.3 × 60 × 112.5 mm (H x W x L)
Operating temperature	-40 °C to +85 °C

IRIDIUM CERTIFIED **2J6026M**



Frequencies	IRIDIUM (1.616-1.626 GHz)
Impedance	50 Ohms
Polarisation	RHCP
Gain	3 dBiC
Patch size	35 x 35 x 3 mm
VSWR	< 1.5:1

General specification

Dimensions	13 x 80 x 76 mm (H x W x L)
Operating temperature	-40 °C to +85 °C



IRIDIUM CERTIFIED
2J6726B



Frequencies	IRIDIUM (1.616-1.626 GHz)
Impedance	50 Ohms
Polarisation	RHCP
Gain	3 dBIC
VSWR	< 1.5:1
Patch size	35 x 35 x 3 mm

General specification

IP certificate	IP67, IK09, IP69K
Dimensions	36.5 x 77.3 mm (H x D)
Operating temperature	-40 °C to +85 °C

IRIDIUM, GPS/GLONASS
2J6033MG
2J6033BG



LTE (Cable 1)

Frequencies	IRIDIUM (1.616-1.626 GHz)
Impedance	50 Ohms
Polarisation	RHCP
Gain	3-5 dBIC
VSWR	< 1.5:1

GNSS (Cable 2)

Frequencies	GPS/GLONASS (1.572-1.610 MHz)
Impedance	50 Ohms
Polarisation	RHCP
LNA Gain	23 dB at 3 V, 24 dB at 5 V
VSWR	< 1.2:1
Voltage supply	2.7 V - 5.5 V
Current	15 mA – 25 mA
Power (max.)	138 mW

General specification

Dimensions	Magnetic version: 13 x 80 x 76 mm (H x W x L) Body mount version: 16 x 80 x 76 mm (H x W x L)
Operating temperature	-40 °C to +85 °C

IRIDIUM 2J9126B

2J9126P



Frequencies	IRIDIUM (1.616-1.626 GHz)
Impedance	50 Ohms
Polarisation	RHCP
Gain	3-5 dBiC
VSWR	< 1.5:1
Patch size	35 x 35 x 3 mm

General specification

IP certificate	IP67
Dimensions	34,9 x 74 mm (H x D)
Operating temperature	-40 °C to +85 °C

IRIDIUM, GPS 2J6A33B



IRIDIUM (Cable 1)

Frequencies	IRIDIUM (1.616-1.626 GHz)
Impedance	50 Ohms
Polarisation	RHCP
Gain	3-5 dBiC
VSWR	< 1.5:1

General specification

IP certificate	IP67, IK09, IP69K
Dimensions	65.5 x 77.3 mm (H x D)
Operating temperature	-40 °C to +85 °C

Navigation (Cable 2)

Frequencies	GPS (1575.42 MHz)
Impedance	50 Ohms
Noise figure	1.15 DB typ
Polarisation	RHCP
LNA Gain	23 dB at 3V, 24 dB at 5V
Voltage supply	2.7 V - 5.5 V
Current	15 mA to 25 mA
Power (max.)	138 mW max.

IRIDIUM, GSM, GPS/GLONASS

2J9048H

In development

**Iridium (Cable 1)**

Frequencies	IRIDIUM (1.616-1.626 GHz)
Impedance	50 Ohms
Polarisation	RHCP
Gain	3 dBiC
VSWR	< 1.5:1

Mobile (Cable 2)

Frequencies	AMPS (850 MHz) GSM (900 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G (UMTS 2.1 GHz) WIFI / BLUETOOTH (2.4 GHz)
Impedance	50 Ohms
Polarisation	Linear
Gain	2.2 dBi Max.
VSWR	< 2:1
Power handling	50 W

Navigation (Cable 3)

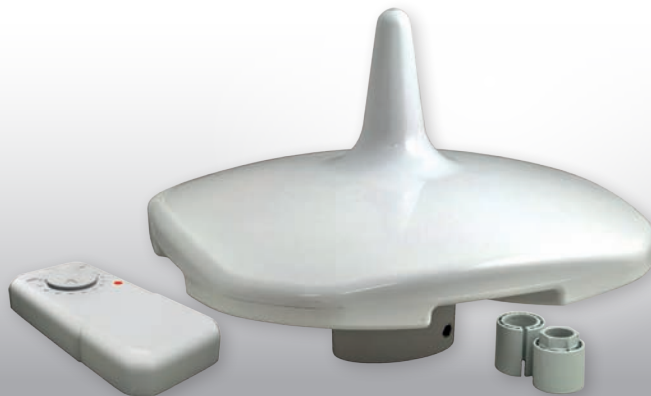
Frequencies	GPS/GLONASS (1572-1610 MHz)
Impedance	50 Ohms
Noise figure	1.15 dB
Polarisation	RHCP
Patch Gain	3 dBiC min at zenith.
LNA Gain	23 dB at 3V, 24 dB at 5V
VSWR	< 1.2:1
Voltage supply	2.7 V - 5.5 V
Current	15 mA to 25 mA
Power (max.)	138 mW

General specification

IP certificate	IP67
Dimensions	192.15 x 110 x 74 mm (H x W x D)
Operating temperature	-40 °C to +85 °C

DVBT, FM

2J9438



Antenna

Frequencies	FM (87,5-108 MHz), DVB-T (440-870 MHz)
Impedance	75 Ohms
Polarisation	Linear
Gain	3 dBi
Power handling	50 W
Dimensions	212 x 280 x 280 mm (H x W x L)

Amplifier

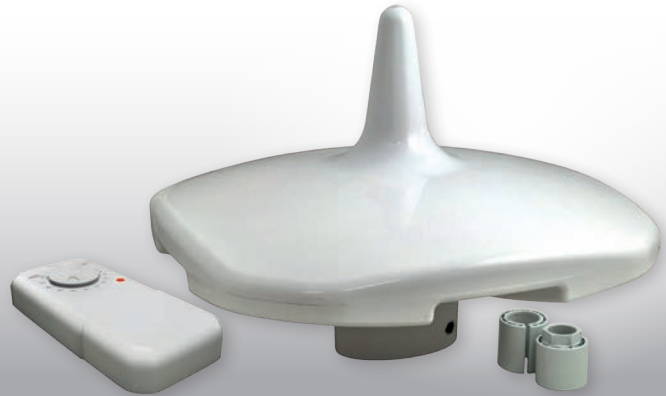
Frequencies	80 MHz to 1 GHz
Impedance	75 Ohms
LNA Gain	Variable from: -7 dB to 29 dB
Voltage supply	10.8 V to 32 V
Current	70 mA to 115 mA
Power (max.)	1.2 W
Dimensions	19.8 x 280 x 280 mm (H x W x L)

General specification

IP certificate	IP69K for antenna
Operating temperature	-25 °C to +55 °C

DVBT, GPS/GLONASS

2J9430



DVB-T/FM (Cable 1)

Frequencies	FM (87,5-108 MHz), DVB-T (440-870 MHz)
Impedance	75 Ohms
Polarisation	Linear
Gain	3 dBi
Power handling	50 W
Dimensions	212 x 280 x 280 mm (H x W x L)

Navigation (Cable 2)

Frequencies	GPS (1575.42 MHz)
Impedance	50 Ohms
Noise figure	1.2 dB
Polarisation	RHCP
Patch size	25 x 25 x 4 mm
Patch Gain	2-3 dBIC
LNA Gain	23 dB at 3V; 24 dB at 5V
Voltage supply	2,7 V - 5,5 V
Current	15 mA to 25 mA
Power (max.)	138 mW
Note	Filter placed after amplifier

Amplifier

Frequencies	80 MHz to 1 GHz
Impedance	75 Ohms
LNA Gain	Variable from: -7 dB to 29 dB
Voltage supply	10.8 V to 32 V
Current	70 mA to 115 mA
Power (max.)	1.2 W
Dimensions	19.8 x 280 x 280 mm (H x W x L)

General specification

IP certificate	P69K for antenna
Operating temperature	-25 °C to +55 °C

DVBT 2J9013



DAB 2JDAB02



Frequencies DVB-T (440-870 MHz)

Impedance 75 Ohms

Polarisation Vertical

LNA Gain 25 dBi

VSWR < 3:1

Power handling 25 W

Voltage supply 5 V - 30 V

Current 13 mA

Power (max.) 390 mW

General specification

IP certificate IP67

Dimensions 233.3 x 110 x 74 mm (H x W x D)

Operating temperature -40 °C to +85 °C

Frequencies DAB (174-240 MHz)

Impedance 50 Ohms

Noise figure 2 dB

Polarisation Linear

LNA Gain 14 dBi

Gain 2 dBi nom.

Voltage supply 6 V - 16 V

Current 20mA typ.

General specification

Dimensions 140 x 39 x 5.5 mm (W x H x T)

Operating temperature -40 °C to +85 °C

Glass mount antenna for GPS, DAB

2J4445P



Navigation (Cable 1)

Frequencies	GPS (1575.42 MHz)
Impedance	50 Ohms
Noise figure	1.15 dB typ.
Polarisation	RHCP
Patch size	18 x 18 x 4 mm
LNA Gain	23 dB at 3V, 24 dB at 5V
Voltage supply	2.7 V - 5.5 V
Current	15 mA to 25 mA
Power (max.)	138 mW max.

General specification

IP certificate	IP67
Dimensions	160.9 x 76.4 x 15.9 mm (W x H x T)
Operating temperature	-40 °C to +85 °C

DAB (Cable 2)

Frequencies	DAB (150-240 MHz)
Impedance	50 Ohms
Noise figure	2.5 dB typ.
Polarisation	Linear
LNA Gain	14 dBi
Voltage supply	5 V - 16 V
Current	10 mA - 14 mA
Power (max.)	224 mW max.

Glass mount antenna for GPS, GSM

2J4400P



Mobile (Cable 1)

Frequencies	AMPS (824-894 MHz), ISM (868 MHz) GSM (900 MHz), DCS (1800 MHz) PCS (1900 MHz), 3G (UMTS 2.1 GHz)
Impedance	50 Ohms
Polarisation	Horizontal
Gain	GSM: 2 dBi typ.
VSWR	< 2:1
Power handling	35 W
Note	With 10k diagnostic resistor

Navigation (Cable 2)

Frequencies	GPS (1575.42 MHz)
Impedance	50 Ohms
Noise figure	1.15 dB typ.
Polarisation	RHCP
LNA Gain	23 dB at 3V, 24 dB at 5V
Voltage supply	2.7 V - 5.5 V
Current	15 mA to 25 mA
Power (max.)	138 mW max.

General specification

IP certificate	IP67
Dimensions	160.9 x 76.4 x 15.9 mm (W x H x T)
Operating temperature	-40 °C to +85 °C



Glass mount antenna for GPS, UHF

2J4407P



Tetra (Cable 1)

Frequencies	UHF (380-400 MHz)*
Impedance	50 Ohms
Polarisation	Linear
Gain	2.2 dBi typ.
VSWR	< 2:1
Power handling	25 W

*Center freq. can be tuned up to 500MHz

Navigation (Cable 2)

Frequencies	GPS (1575.42 MHz)
Impedance	50 Ohms
Noise figure	1.15 dB typ.
Polarisation	RHCP
LNA Gain	23 dB at 3V, 24 dB at 5V
Voltage supply	2.7 V - 5.5 V
Current	15 mA to 25 mA
Power (max.)	138 mW max.

General specification

IP certificate	IP67
Dimensions	160.9 x 76.4 x 15.9 mm (W x H x T)
Operating temperature	-40 °C to +85 °C

DVBT, GPS 2J8530B



DVBT (Cable 1)

Frequencies	DVB-T (440-870 MHz)
Impedance	50 Ohms
Polarisation	Vertical
LNA Gain	23 dBi
VSWR	< 3:1
Power handling	25 W
Voltage supply	3.3 V - 16 V
Current	13 mA
Power (max.)	390 mW

Navigation (Cable 2)

Frequencies	GPS (1575.42 MHz)
Impedance	50 Ohms
Polarisation	RHCP
LNA Gain	23 dB at 3V; 24 dB at 5V
Voltage supply	2.7 V - 5.5 V
Current	15 mA to 25 mA
Power (max.)	138 mW max.

General specification

IP certificate	IP67
Dimensions	137 x 143 x 60 mm (H x L x W)
Operating temperature	-40 °C to +85 °C



DVBT, GPS / GLONASS

2J7530B

2J7530M



DVBT (Cable 1)

Frequencies	DVB-T (440-870 MHz)
Impedance	50 Ohms
Polarisation	Vertical
LNA Gain	23 dBi
VSWR	< 3:1
Power handling	25 W
Voltage supply	3.3 V - 16 V
Current	13 mA
Power (max.)	390 mW

Navigation (Cable 2)

Frequencies	GPS / GLONASS (1572-1610 MHz)
Impedance	50 Ohms
Noise figure	1.2 nominal
Polarisation	RHCP
LNA Gain	23 dB at 3V; 24 dB at 5V
VSWR	< 1.2:1
Voltage supply	2.7 V - 5.5 V
Current	15 mA to 25 mA
Power (max.)	138 mW max.

General specification

IP certificate	IP67, IP69K
Dimensions	Body mount: 100.5 x 60 mm (H x D), Magnetic mount: 96.1 x 54 mm (H x D)
Operating temperature	-40 °C to +85 °C

GPS / GLONASS, AIS

2J9237



Navigation (Cable 1)

Frequencies	GPS / GLONASS (1572-1610 MHz)
Impedance	50 Ohms
Polarisation	RHCP
LNA Gain	23 dB at 3V, 24 dB at 5V
VSWR	< 1.2:1
Voltage supply	2.7 V - 5.5 V
Current	15 mA to 25 mA
Power (max.)	138 mW max.
Note	Antenna is filtered

General specification

IP certificate	IP67
Dimensions	248 x 110 x 74 mm (H x W x D)
Operating temperature	-40 °C to +85 °C

AIS (Cable 2)

Frequencies	AIS (162 MHz)
Impedance	50 Ohms
Polarisation	Linear
VSWR	< 2:1
Power handling	25 W

Variable dipole 380MHz – 2,4GHz

2JD07xx



Frequencies	380 MHz up to 2.4 GHz
Impedance	50 Ohms
Polarisation	Lineas
Bandwidth	40 MHz +/- 5 MHz
Gain	2 dBi Max.
VSWR	< 2:1

General specification

Dimensions	24.8 x 13.6 x -- mm (H x T x W)
Operating temperature	-40 °C to +85 °C



2J s.r.o

Stefanikova 61
085 01 Bardejov

Slovak Republic

☎ +421 54 4880130

✉ sales@2j-antennae.com

2J Ltd.

21-22 The Slipway
Marina Keep, Port Solent
Hampshire, PO6 4TR, **United Kingdom**

☎ +44 (0)2392 385985

✉ steve@2j-antennae.com

