leading technology in electronic countermeasures,reliable and high-performance products, trusted by users

CUSTOMER ORIENTATION TECHNOLOGICAL INNOVATION WIN WIN COOPERATION

Product MANUAL

Product

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Radar Series

Radar

Part I 100-400MHz 50W Narrowband Power Amplifier

Narrow-band Power Amplifier

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency	100-400MHz
2	Input Power	0dbm
3	Output CW Saturated Power	≥50W (47dBm) ±1 dBm
4	In-Band Gain Flatness	≤1.5dB
5	Output Port VSWR	≤1.8
6	Clutter Suppression	≥50dBc
7	Harmonic Suppression	≥35dBc
8	RF Interface	SMA-K Female Connector with External Thread
9	PTT Control Voltage	3.3V (High-Level Enable)
10	VCC Power Supply Interface	Red and Black Wires
11	Operating Voltage	DC+28V
12	Operating Current	5A±1
13	Dimensions Excluding Connectors	127.4×59.6×21.5 mm
14	Mounting Dimensions	121.4×53.4 mm / 4.5 mm Through Holes
15	Operating Temperature	-20℃~+55℃
16	Mounting Method	Heat Sink Required for Power Amplifier Testing

Part II 400-500 MHz 50 W Narrowband Power Amplifier

Narrow-band Power Amplifier

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency	400-500MHz
2	Input Power	0dbm
3	Output CW Saturated Power	≥50W (47dBm) ±1 dBm
4	In-Band Gain Flatness	≤1.5dB
5	Output Port VSWR	≤1.8
6	Clutter Suppression	≥50dBc
7	Harmonic Suppression	≥35dBc
8	RF Interface	SMA-K Female Connector with External Thread
9	PTT Control Voltage	3.3V (High-Level Enable)
10	VCC Power Supply Interface	Red and Black Wires
11	Operating Voltage	DC+28V
12	Operating Current	4A±1
13	Dimensions Excluding Connectors	127.4×59.6×21.5 mm
14	Mounting Dimensions	121.4×53.4 mm / 4.5 mm Through Holes
15	Operating Temperature	-20℃~+55℃
16	Mounting Method	Heat Sink Required for Power Amplifier Testing

PartII 500-600MHz 50W Narrowband Power Amplifier

Narrow-band Power Amplifier

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency	500-600MHz
2	Input Power	0dbm
3	Output CW Saturated Power	≥50W (47dBm) ±1 dBm
4	In-Band Gain Flatness	≤1.5dB
5	Output Port VSWR	≤1.8
6	Clutter Suppression	≥50dBc
7	Harmonic Suppression	≥35dBc
8	RF Interface	SMA-K Female Connector with External Thread
9	PTT Control Voltage	3.3V (High-Level Enable)
10	VCC Power Supply Interface	Red and Black Wires
11	Operating Voltage	DC+28V
12	Operating Current	4A±1
13	Dimensions Excluding Connectors	127.4×59.6×21.5 mm
14	Mounting Dimensions	121.4×53.4 mm / 4.5 mm Through Holes
15	Operating Temperature	-20℃~+55℃
16	Mounting Method	Heat Sink Required for Power Amplifier Testing

Part IV 600-700MHz 50W Narrowband Power Amplifier

Narrow-band Power Amplifier

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency	600-700MHz
2	Input Power	0dbm
3	Output CW Saturated Power	≥50W (47dBm) ±1 dBm
4	In-Band Gain Flatness	≤1.5dB
5	Output Port VSWR	≤1.8
6	Clutter Suppression	≥50dBc
7	Harmonic Suppression	≥35dBc
8	RF Interface	SMA-K Female Connector with External Thread
9	PTT Control Voltage	3.3V (High-Level Enable)
10	VCC Power Supply Interface	Red and Black Wires
11	Operating Voltage	DC+28V
12	Operating Current	4A±1
13	Dimensions Excluding Connectors	127.4×59.6×21.5 mm
14	Mounting Dimensions	121.4×53.4 mm / 4.5 mm Through Holes
15	Operating Temperature	-20℃~+55℃
16	Mounting Method	Heat Sink Required for Power Amplifier Testing

Part V 700-800MHz 50W Narrowband Power Amplifier

Narrow-band Power Amplifier

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency	700-800MHz
2	Input Power	0dbm
3	Output CW Saturated Power	≥50W（47dBm）±1 dBm
4	In-Band Gain Flatness	≤1.5dB
5	Output Port VSWR	≤1.8
6	Clutter Suppression	≥50dBc
7	Harmonic Suppression	≥35dBc
8	RF Interface	SMA-K Female Connector with External Thread
9	PTT Control Voltage	3.3V (High-Level Enable)
10	VCC Power Supply Interface	Red and Black Wires
11	Operating Voltage	DC+28V
12	Operating Current	4A±1
13	Dimensions Excluding Connectors	127.4×59.6×21.5 mm
14	Mounting Dimensions	121.4×53.4 mm / 4.5 mm Through Holes
15	Operating Temperature	-20℃~+55℃
16	Mounting Method	Heat Sink Required for Power Amplifier Testing

Part VI 800-900MHz 50W Narrowband Power Amplifier

Narrow-band Power Amplifier

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency	800-900MHz
2	Input Power	0dbm
3	Output CW Saturated Power	≥50W（47dBm）±1 dBm
4	In-Band Gain Flatness	≤1.5dB
5	Output Port VSWR	≤1.8
6	Clutter Suppression	≥50dBc
7	Harmonic Suppression	≥35dBc
8	RF Interface	SMA-K Female Connector with External Thread
9	PTT Control Voltage	3.3V (High-Level Enable)
10	VCC Power Supply Interface	Red and Black Wires
11	Operating Voltage	DC+28V
12	Operating Current	4A±1
13	Dimensions Excluding Connectors	127.4×59.6×21.5 mm
14	Mounting Dimensions	121.4×53.4 mm / 4.5 mm Through Holes
15	Operating Temperature	-20℃~+55℃
16	Mounting Method	Heat Sink Required for Power Amplifier Testing

Part VII 900-1000MHz 50W Narrowband Power Amplifier

Narrow-band Power Amplifier

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency	900-1000MHz
2	Input Power	0dbm
3	Output CW Saturated Power	≥50W（47dBm）±1 dBm
4	In-Band Gain Flatness	≤1.5dB
5	Output Port VSWR	≤1.8
6	Clutter Suppression	≥50dBc
7	Harmonic Suppression	≥35dBc
8	RF Interface	SMA-K Female Connector with External Thread
9	PTT Control Voltage	3.3V (High-level enable)
10	VCC Power Supply Interface	Red and Black Wires
11	Operating Voltage	DC+28V
12	Operating Current	4A±1
13	Dimensions Excluding Connectors	127.4×59.6×21.5 mm
14	Mounting Dimensions	121.4×53.4 mm / 4.5 mm Through Holes
15	Operating Temperature	-20℃~+55℃
16	Mounting Method	Heat Sink Required for Power Amplifier Testing

Part VIII 1500-1800MHz 100W Narrowband Power Amplifier

Narrow-band Power Amplifier

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency	1500-1800MHz
2	Output CW Saturated Power	≥100W（50dBm）±1 dBm
3	In-Band Gain Flatness	≤1.5dB
4	Output Port VSWR	≤1.8
5	Clutter Suppression	≥45dBc
6	Harmonic Suppression	≥10dBc
7	RF Output Interface	SMA-K Female Connector with External Thread
8	VCC Power Supply Interface	VH3.96-2P WZ Pin, with plug and red-black wires
9	Operating Voltage	DC+28V
10	Operating Current	11A±1
11	Dimensions Excluding Connectors	200×110×20.3mm
12	Mounting Dimensions	(95.5+95.5)×101mm/4.6mm Through Hole
13	Operating Temperature	-25℃~+55℃
14	Mounting Method	Heat Sink Required for Power Amplifier Testing

Part IX 1800-2100MHz 100W Narrowband Power Amplifier

Narrow-band Power Amplifier

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency	1800-2100MHz
2	Output CW Saturated Power	≥100W (50dBm) ±1 dBm
3	In-Band Gain Flatness	≤1.5dB
4	Output Port VSWR	≤1.8
5	Clutter Suppression	≥45dBc
6	Harmonic Suppression	≥10dBc
7	RF Output Interface	SMA-K Female Connector with External Thread
8	VCC Power Supply Interface	VH3.96-2P WZ Pin, with plug and red-black wires
9	Operating Voltage	DC+28V
10	Operating Current	12A±1
11	Dimensions Excluding Connectors	200×110×20.3mm
12	Mounting Dimensions	(95.5+95.5)×101mm/4.6mm Through Hole
13	Operating Temperature	-25℃~+55℃
14	Mounting Method	Heat Sink Required for Power Amplifier Testing

Part X 2100-2400MHz 100W Narrowband Power Amplifier

Narrow-band Power Amplifier

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency	2100-2400MHz
2	Output CW Saturated Power	≥100W (50dBm) ±1 dBm
3	In-Band Gain Flatness	≤1.5dB
4	Output Port VSWR	≤1.8
5	Clutter Suppression	≥45dBc
6	Harmonic Suppression	≥10dBc
7	RF Output Interface	SMA-K Female Connector with External Thread
8	VCC Power Supply Interface	VH3.96-2P WZ Pin, with plug and red-black wires
9	Operating Voltage	DC+28V
10	Operating Current	12A±1
11	Dimensions Excluding Connectors	200×110×20.3mm
12	Mounting Dimensions	(95.5+95.5)×101mm/4.6mm Through Hole
13	Operating Temperature	-25℃~+55℃
14	Mounting Method	Heat Sink Required for Power Amplifier Testing

Part XI 2400-2700MHz 100W Narrowband Power Amplifier

Narrow-band Power Amplifier

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency	2400-2700MHz
2	Output CW Saturated Power	≥100W（50dBm）±1 dBm
3	In-Band Gain Flatness	≤1.5dB
4	Output Port VSWR	≤1.8
5	Clutter Suppression	≥45dBc
6	Harmonic Suppression	≥10dBc
7	RF Output Interface	SMA-K Female Connector with External Thread
8	VCC Power Supply Interface	VH3.96-2P WZ Pin, with plug and red-black wires
9	Operating Voltage	DC+28V
10	Operating Current	12A±1
11	Dimensions Excluding Connectors	200×110×20.3mm
12	Mounting Dimensions	(95.5+95.5)×101mm/4.6mm Through Hole
13	Operating Temperature	-25℃~+55℃
14	Mounting Method	Heat Sink Required for Power Amplifier Testing

Part XII 2700-3000MHz 100W Narrowband Power Amplifier

Narrow-band Power Amplifier

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency	2700-30000MHz
2	Output CW Saturated Power	≥100W（50dBm）±1 dBm
3	In-Band Gain Flatness	≤1.5dB
4	Output Port VSWR	≤1.8
5	Clutter Suppression	≥45dBc
6	Harmonic Suppression	≥10dBc
7	RF Output Interface	N female connector with external thread
8	PTT control voltage	3.3V (High-level enable)
9	VCC Power Supply Interface	Red and Black Wires
10	Operating Voltage	DC+28V
11	Operating Current	9A±1
12	Dimensions Excluding Connectors	200×110×20.3mm
13	Mounting Dimensions	(95.5+95.5)×101mm/4.6mm Through Hole
14	Operating Temperature	-25℃~+55℃
15	Mounting Method	Heat Sink Required for Power Amplifier Testing

Part I 300-2500MHz 50W Broadband Power Amplifier

Broadband Power Amplifier

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency	300MHz~2500MHz
2	Gain	≥46dB
3	Input Power	≤3dBm
4	Maximum Input	+6dBm
5	Output CW Saturated Power	≥50W
6	In-Band Gain Flatness	≤±3dB
7	Temperature Protection	Protection at >80℃, automatically resumes normal operation after recovery
8	Operating Current	≤8A, typical value 5~6A
9	Input Port VSWR	≤1.6
10	Clutter Suppression	≥65dBc
11	Harmonic Suppression	≥11dBc
12	RF Input Interface	SMA-K
13	RF Output Interface	SMA-K
14	28V Power Supply Interface	Feedthrough Capacitor
15	Power Amplifier PTT Switch Port	Power Amplifier default off, enabled at 5V
16	VCC Power Supply Reference	28-32V/8A
17	Maximum VCC Voltage	+33V
18	Weight	510g
19	Dimensions excluding connectors	174.5*60*21.5mm
20	Operating Temperature	-30℃~+55℃
21	Mounting Method	Heat Sink Required for Power Amplifier Testing

Part II 1000-3000MHz 50W Broadband Power Amplifier

Broadband Power Amplifier

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency	1000MHz~3000MHz
2	Gain	≥46dB
3	Input Power	≤3dBm
4	Maximum Input	+6dBm
5	Output CW Saturated Power	≥50W
6	In-Band Gain Flatness	≤±3dB
7	Temperature Protection	Protection at >80℃, automatically resumes normal operation after recovery
8	Operating Current	≤8A, typical value 5~6A
9	Input Port VSWR	≤1.6
10	Clutter Suppression	≥65dBc
11	Harmonic Suppression	≥11dBc
12	RF Input Interface	SMA-K
13	RF Output Interface	SMA-K
14	28V Power Supply Interface	Feedthrough Capacitor
15	Power Amplifier PTT Switch Port	Power Amplifier default off, enabled at 5V
16	VCC Power Supply Reference	28-32V/8A
17	Maximum VCC Voltage	+33V
18	Weight	510g
19	Dimensions excluding connectors	174.5*60*21.5mm
20	Operating Temperature	-30℃~+55℃
21	Mounting Method	Heat Sink Required for Power Amplifier Testing

Part III 4000-8000MHz 50W Broadband Power Amplifier

Broadband Power Amplifier

Main Technical Specifications:

No.	Parameters	Specification
1	Operating Frequency	4000MHz~8000MHz
2	Gain	≥46dB
3	Input Power	≤3dBm
4	Maximum Input	+6dBm
5	Output CW Saturated Power	≥40W
6	In-Band Gain Flatness	≤±3dB
7	Temperature Protection	Protection at >80℃, automatically resumes normal operation after recovery
8	Operating Current	≤8A
9	Input Port VSWR	≤2
10	Clutter Suppression	≥65dBc
11	Harmonic Suppression	≥11dBc
12	RF Input Interface	SMA-K
13	RF Output Interface	SMA-K
14	28V Power Supply Interface	Feedthrough Capacitor
15	Power Amplifier PTT Switch Port	Power Amplifier default off, enabled at 5V
16	VCC Power Supply Reference	28-32V/8A
17	Maximum VCC Voltage	+33V
18	Weight	147.00×69.40×26.50mm
19	Dimensions excluding connectors	552.7g
20	Operating Temperature	-30℃~+55℃
21	Mounting Method	Heat Sink Required for Power Amplifier Testing

Part IV 1000-3000MHz 100W Broadband Power Amplifier

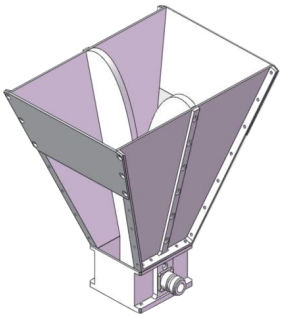
Broadband Power Amplifier

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency	1000~3000MHz
2	Gain	47dB(Typ)
3	Input Power (@P3dB)	0~6dBm(Typ:3dBm)
4	Output CW Saturated Power	≥49dBm(Typ:50dBm)
5	In-Band Gain Flatness	≤±4dB
6	Input Port VSWR	2(Typ)
7	Clutter Suppression	≤-50dBc
8	Harmonic Suppression	-15dBc(Typ)
9	RF Input Interface	SMA-K
10	RF Output Interface	N-K
11	Power Supply Interface	Feedthrough Capacitor
12	VCC Supply Voltage	28V
13	Power Consumption @ Po=100W	≤350W(Typ:260W)
14	Efficiency	35%(Typ)
15	Operating Temperature Range	-40℃~+55℃
16	Storage Temperature Range	-55℃~+85℃
17	Impedance	50ohms
18	Temperature Protection	Protection at >85℃, automatically resumes normal operation after recovery
19	Power Amplifier PTT Switch Port	Power amplifier default off; enabled at 3.5-5V

Part I 800~8000MHz Speaker Antenna

800~8000 MHZ Horn Antenna

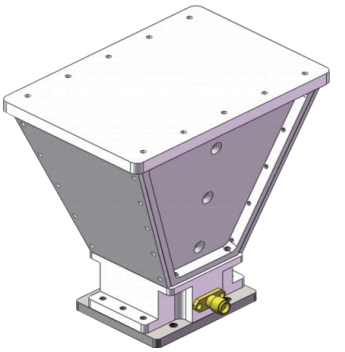


Main Technical Specifications:

No.	Parameter	Specification
1	Frequency Range	800~8000MHz
2	Input Impedance	50Ω (nominal)
3	Voltage Standing Wave Ratio	≤ 2.5 (typical value, satisfied at over 90% of frequency points)
4	Polarization type	Vertical polarization
5	Radiation pattern	Directional pattern
6	Gain	4 ~ 14 dBi (individual frequency points > 16 dBi considered acceptable)
7	Beamwidth	E-plane ≥ 20°, H-plane ≥ 20°
8	Dimensions	≤ 210 × 160 × 210 mm (L × W × H);
9	Weight	≤1.5kg
10	RF Interface	N-K
11	Power capacity	100W

Part II 2 ~ 18 GHz Horn antenna

2~8 MHZ Horn Antenna

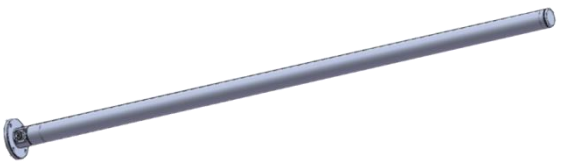


Main Technical Specifications:

No.	Parameter	Specification
1	Frequency Range	2~18GHz
2	Input Impedance	50Ω (nominal)
3	Voltage Standing Wave Ratio	≤ 2.5 (typical value, satisfied at more than 2/3 of frequency points)
4	Polarization type	Vertical polarization
5	Radiation pattern	Directional pattern
6	Gain	4 ~ 16 dBi (individual frequency points > 16 dBi considered acceptable)
7	Beamwidth	E-plane ≥ 15°, H-plane ≥ 15°
8	Dimensions	106.7 × 74.6 × 101 mm (Length × Width × Height)
9	Weight	0.3kg
10	RF Interface	SMA-K
11	Power capacity	10W

Part III AIS/ACARS Signal Receiving Antenna

AIS/ACARS Signal Receiving Antenna



Main Technical Specifications:

No.	Parameter	Specification
1	Antenna Type	Whip-Type Omnidirectional Antenna
2	Frequency Range	118~164MHz
3	Input Impedance	50Ω (nominal)
4	Voltage Standing Wave Ratio	≤ 2.0 (Typical Value)
5	Polarization type	Vertical polarization
6	Radiation pattern	Omnidirectional
7	Gain	≥ 2 dBi (Typical Value)
8	Beamwidth	Omnidirectional in Horizontal Plane, Horizontal Plane Non-Circularity ≤ 3 dB
9	Dimensions	≤ Φ90 × 1200 mm (Diameter × Height)
10	Weight	≤2kg
11	RF Interface	Stainless Steel 316LN Female Connector
12	Power capacity	≥10W

Part IV ADS-B Signal Receiving Antenna

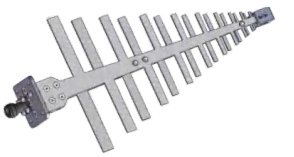
ADS-B Signal Receiving Antenna

Main Technical Specifications:

No.	Parameter	Specification
1	Antenna Type	Series-Fed Omnidirectional Antenna
2	Frequency Range	1060~1120MHz
3	Input Impedance	50Ω (nominal)
4	Voltage Standing Wave Ratio	≤ 2 (Typical Value)
5	Polarization type	Vertical polarization
6	Radiation pattern	Omnidirectional in Horizontal Plane
7	Gain	≥ 5 dBi (Typical Value)
8	Beamwidth	Omnidirectional H-Plane
9	Dimensions	≤ Φ40 × 700 mm (Diameter × Height, excluding connector)
10	Weight	≤0.5kg
11	RF Interface	Stainless Steel 316LN Female Connector
12	Power capacity	20W (Continuous Wave)

Part V 1~6GHz Log-Periodic Antenna

1~6GHz Log-Periodic Antenna

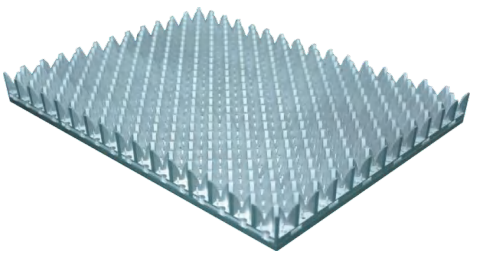


Main Technical Specifications:

No.	Parameter	Specification
1	Antenna Type	Log-Periodic Antenna
2	Frequency Range	1~6GHz
3	Input Impedance	50Ω (nominal)
4	Voltage Standing Wave Ratio	≤2
5	Polarization type	Vertical polarization
6	Radiation pattern	Directional pattern
7	Gain	7.8~9.6dBi (≥6dBi)
8	Beamwidth	E-plane
9	55°~62°, H-plane	90°~103°
10	Dimensions	Approx. 156 × 50 × 293 mm (L × W × H)
11	Weight	≤0.5kg
12	RF Interface	N-50K
13	Power capacity	30W (Continuous Wave)
14	Paint Color	Matte Black

Part W Passive Antenna Array

Passive Antenna Array



Main Technical Specifications:

No.	Parameter	Specification
1	Antenna Type	Passive Antenna Array
2	Frequency Range	6GHz~18GHz
3	Polarization type	±45° Slant Polarization
4	Effective Array Element Count	16 × 24 (Rows × Columns)
5	Effective Channel Count	32 × 24 (Rows × Columns)
6	Active VSWR	≤3:1 (80% of channels at all scan angles); ≤6:1 (Maximum across all channels and scan angles)
7	Beam Scanning Range	≥±45° (Azimuth); ≥±15° (Elevation)
8	Power Rating	≥5W
9	Gain	≥23dbi+20log10（f/6GHz）dbi
10	Antenna Height	≤40mm
11	Weight	≤1.5kg
12	Port Spacing	9mm×9mm
13	Color	Intrinsic Conductive Oxide
	Operating Temperature	

Part I 8T8R Transceiver Digital Board

8T8R Transceiver Digital Board

The multi-channel RFSOC development platform signal processor uses the RFSOC chip to enable acquisition and transmission of 8-channel signals, and it also includes the Timing Function.

Main functions are as follows:

(1) Supports simultaneous acquisition of multiple channels;

(2) The board supports high-speed signal transmission;

(3) Features interfaces for both external clock and timing input;

(4) Includes GPS orientation capability, adjusting direction based on received GPS signals;

(5) Equipped with an optical port supporting optical signal transmission via the aurora__64b66b__5G protocol;

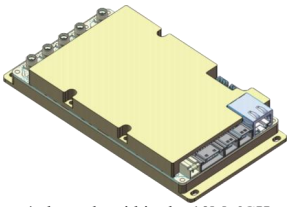
(6) Supports receiving Ethernet control commands via the network port.

Main Technical Specifications:

No.	Parameter	Specification
1	Number of AD channels	8 channels
2	Number of DA channels	8 channels
3	AD operating frequency	1M~6GHz
4	DA operating frequency	1M~6GHz
5	Instantaneous bandwidth	≥500MHz
6	DA output power	≥-15dBm
7	Ethernet interface	1 port, compatible with 10M/100M/1000M
8	Number of QSFP interfaces	2
9	QSFP interface speed	28*4Gbps
10	RS232 interface	≥2
11	RS422 interface	≥2
12	TTL serial port	≥2
13	485L serial port	≥2
14	Power supply voltage	12V
15	Power consumption	≤60W；
16	Weight requirements	≤2kg

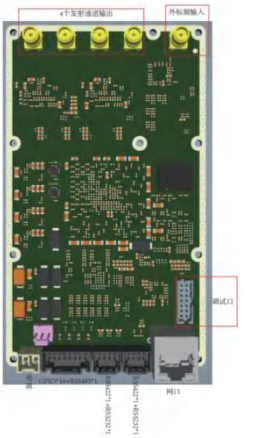
Part II 4T Transmission digital board

4T Transmit Digital Board



Implements the function of generating complex analog electromagnetic environments and interference signals over 4 channels within the 10M-6GHz frequency band.

Main functions are as follows:



(1) Equipped with 4 transmission channels;

(2) AD9173 frequency range supports 10M-6GHz, with a maximum instantaneous bandwidth of 500 MHz;

(3) Supports receiving Ethernet control commands and data streams via network port;

(4) Supports serial port reception of host control commands and data streams and control of external devices (selectable 422, 485, 232);

(5) Provides real-time printing of operational status;

(6) External communications include gigabit Ethernet port and serial ports (422, 485, RS232);

7. Equipped with user status indicator light.

Main Technical Specifications:

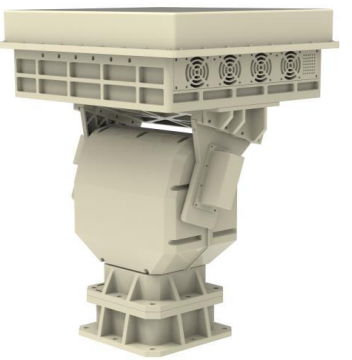
No.	Parameter	Specification
1	Number of transmit ports	4T
2	Operating Frequency	10M-6GHz
3	Operating bandwidth	Up to 500MHz
4	Output level	≥-10dBm（cw，3GHz）;≥-16dBm (cw,3GHz ~ 6GHz)
5	Output adjustment accuracy	1dB
6	Spurious leakage	≤-75dBm
7	Clutter Suppression	≥50dB (typical)
8	Harmonic Suppression	≥50dB (typical)
9	Ethernet interface	Compatible with 10M/100M/1000M
10	Frequency accuracy	Better than 1KHz @ 1.5GHz; better than 10KHz @ 6GHz
11	User IO	10
12	Serial ports	5
13	Frequency stability	≤0.1ppm (internal)
14	Power supply voltage	12V
15	Power consumption	≤30W
16	Weight requirements	≤300g

Part I Unmanned Aerial Vehicle Jamming Equipment

This equipment features the function of suppressing and jamming the control links of UAVs to cut off their control signals. Guided by radar, it points at the target area and performs suppression or automatic jamming according to system strategies. Equipped with 4 broadband jamming channels, it can simultaneously jam up to 4 target frequencies, implement full-coverage/blanket jamming against multiple UAVs, form an electronic "fence", and block communication between UAVs and their controllers.

Main functions are as follows:

(1)Uses software-defined radio (SDR) technology to generate adaptive jamming signals targeting UAVs;
(2)Supports offline upgrade of jamming pattern programs;
(3)Has frequency blocking capability based on the protected frequency bands required by the system;
(4)Supports automatic guidance of data from radar, radio direction finding, and reconnaissance equipment;
(5)Equipped with a dual-axis turntable, featuring automatic alignment based on radar guidance angles;
(6)Supports networking expansion for multiple devices.



Main Technical Specifications as follows:

No.	Parameter	Specification
1	Operating Frequency Band	Supports UAV remote control link jamming, covering 300MHz~6000MHz
2	Azimuth & Elevation Coverage	Azimuth: 0°~360°, Elevation: 0°~+70°
3	Instantaneous Jamming Bandwidth	Max 500MHz
4	Jamming Range	≥ 5km
5	Simultaneous Jamming Channels	≥ 4 channels
6	Typical Remote Control Frequencies	433MHz, 915MHz, 2.45GHz, 5.8GHz (4 key frequency bands)
7	Full-band Interference Frequency Range	Full coverage of 300-6000MHz, divided into: 300~1200MHz, 1200~2700MHz, 2700~6000MHz, 1560~1620MHz
8	Navigation Jamming Frequencies	Compatible with 4 major navigation systems: GPS, BD, GLONASS, GALILEO
9	Equipment Weight	≤ 50kg
10	Total Power Consumption	≤ 1500W
11	Power Supply	220VAC
12	Operating Temperature Range	-20℃ ~ +55℃

Part II PortableHigh-PowerDrone Counter measure System

Portable High-Power UAV Countermeasure Device

The portable high-power anti-drone device directionally emits high-power interference signals that disrupt the communication links of typical low-altitude drones, including the remote controller link, video transmission link, and navigation signal reception link. This blocks communications between the drone and its operator, interferes with the drone's reception of satellite navigation signals, and forces typical low-altitude drones to return or perform emergency landings, thereby achieving an effective anti-drone interference effect.

Main functions are as follows:

(1) Features portable design:
(2) Supports directional transmission of multi-band electronic interference signals;
(3) Equipped with a software-defined radio interference signal source, providing efficient interference modes;
(4) Supports online upgrading of interference mode programs;
(5) One-key device operation with independent switches for each frequency band, allowing flexible selection of interception modes;
(6) Supports remote control;
(7) Equipped with a display screen;
(8) Real-time display of interference transmission status, Interference Frequency Band information, and power levels, with adjustable screen brightness.

Main Technical Specifications:

No.	Parameter	Indicator
1	Interference Frequency Band	Equipped with UAV communication link interference capability, the interference frequency band can cover 840MHz, 915MHz, 1.2GHz, 1.4GHz, 1.6GHz, 2.4GHz, 5.2GHz, 5.8GHz, and other conventional UAV frequency bands
2	Output EIRP	840MHz & 915MHz: 42.5dBm typical 1.2GHz: 42.5dBm typical 1.4GHz: 45dBm typical 1.6GHz: 45dBm typical 2.4GHz: 56.5dBm typical 5.2GHz & 5.8GHz: 61.5dBm typical
3	3dB beamwidth	≥15°
4	Jamming Distance	≥ 3.0 km (target UAV EIRP 0.1W)
5	Number of interference frequency bands	Supports simultaneous multi-band interference with ≥ 8 interference frequency bands
6	Transmission Mode	Return/Forced Landing
7	Display	The display screen can show real-time interference transmission status and interference frequency band information
8	Dimensions	≤310×310×105mm (L×W×H)
9	Weight	≤5.6Kg
10	Operating Temperature	-25~+55℃

Part III Radio Jamming and Deception Equipment

This integrated UAV jamming and deception equipment is designed to block and spoof both the remote control links and navigation links of UAVs. Equipped with six broadband jamming channels, it can simultaneously jam up to 6 frequency targets, implement blanket jamming against multiple UAVs, form an electronic fence to cut off communication between UAVs and their operators. The equipment can suppress UAV control signals and spoof navigation positioning information, achieving forced landing, return-to-home, and fixed-point recovery of UAVs.

This product integrates the transmitting antenna, power amplifier, jamming exciter, control circuit, and power supply into a unified jamming system. The main components are the transmitting device and the turntable, offering convenient deployment and a compact, clean appearance.

Main functions are as follows:

(1)Adopts software-defined radio (SDR) technology to generate adaptive jamming signals targeting UAVs.

(2)Supports offline upgrade of jamming pattern programs.

(3)Provides frequency blocking capability for protected frequency bands as required by the system.

(4)Has suppression capability for signals outside the radiation band, preventing electromagnetic interference from out-of-band signals.

(5)Integrates both suppression jamming and navigation deception functions.

(6)Supports automatic data reception and guidance from radar and radio reconnaissance equipment.

(7)Equipped with a dual-axis turntable, featuring automatic alignment based on guidance angles.

(8)Supports networking expansion for multiple devices.

Main Technical Specifications as follows:

No.	Parameter	Specification
1	Operating Frequency Band	Supports UAV remote control link jamming, covering 300MHz~6000MHz
2	Azimuth & Elevation Coverage	Azimuth: 0°~360°, Elevation: 0°~+70°
3	Instantaneous Jamming Bandwidth	Max 500MHz
4	Jamming Range	≥ 5km
5	Simultaneous Jamming Channels	≥ channels
6	Typical Remote Control Frequencies	433MHz, 915MHz, 2.45GHz, 5.2GHz, 5.8GHz (5 key frequency bands)
7	Navigation Jamming Frequencies	Compatible with 4 major navigation systems: GPS, BD, GLONASS, GALILEO
8	Navigation Deception Frequencies	Compatible with GPS, BD, GLONASS, GALILEO, supporting GPS L1/L2/L5, BDS B1/B2, GLONASS G1/G2, GALILEO E1/E5A signals
9	Deception Range	≥ 30km
10	Equipment Weight	≤ 70kg (excluding mounting accessories)
11	Power Consumption	≤ 1800W
12	Power Supply	
13	Operating Temperature Range	℃ ℃

Part IV UAV Navigation Deception Equipment

Drone Navigation Deception Device

UAV navigation deception equipment is a system used to effectively interfere with and deceive the UAV's positioning and navigation system by blocking the reception of navigation signals, rendering positioning impossible; It is also possible to conduct navigation deception on the target, guiding it to a designated location before implementing control measures. The device can be used independently or in combination with UAV low-altitude detection radar and UAV detection equipment.

The portable navigation deception device integrates the antenna and jammer into one design, featuring compact size, light weight, and a high degree of integration. The device offers flexible operation modes: it can operate in Directional Operation Mode by using a rotating platform, or adopt an omnidirectional jamming mode without a rotating platform.

Main functions are as follows:

(1) Supports interference, fixed-point deception, and specific area kinetic repulsion of navigation signals such as GPS, BDS, and GLONASS;

(2) The deception function under low-power conditions can achieve long-range operational characteristics;

(3) Features a Directional Operation Mode that works in conjunction with the equipped rotating platform and target guidance information;

(4) Features an omnidirectional operation mode, performing omnidirectional interference and deception without a rotating platform;

(5) Features timing function and ephemeris calculation management;

(6) Equipped with an automatic tracking function; when target guidance information (position or azimuth) is available, the device can automatically align with the target accordingly;

(7) Equipped with a capture function capable of capturing airborne drones when target guidance position information is available;

(8) Equipped with automatic positioning capability;

(9) Human-computer interaction software capable of online/offline display of UAV flight track situation, real-time display of navigation satellite status, and equipment operational status; supports user selection of interference and deception methods and power control;

(10) Supports automatic integration of reconnaissance data such as radar and radio;

(11) Equipped with multi-device networking expansion functions.

Main Technical Specifications:

No.	Parameter	Specification
1	Operating Frequency Band (MHz)	1.56~1.62GHz
2	Interference Frequency Band (MHz)	Interference frequency points within the band can be set arbitrarily
3	Deception Frequency Points	G1、B1、L1
4	Antenna Array Type	Integrated High-Gain Array Antenna / High-Gain Omnidirectional Antenna
5	Antenna Beam Control	Supports directional and omnidirectional jamming
6	Beam Range (°)	360°×20° (Omnidirectional); 30°×30° (Directional)
7	Phased Scanning Angle (°)	0~360°
8	Polarization type	Vertical Polarization; RHCP
9	Jamming Distance	5km ; 20km
10	Power Amplifier Output Power	≥20W
11	Device Power Consumption	≤100W
12	Weight	Approximately 16.5 kg (Device weight: 5 kg; Gimbal weight: 6.5 kg; Mounting structure: 0.5 kg; Tripod: 4 kg; Installation accessories: 0.5 kg)
13	Gimbal Rotation Speed	Horizontal 30°/s; Pitch 15°/s, adjustable speed
14	Gimbal Rotation Angle	Horizontal 360° continuous rotation; Pitch 0° to +90°; can be mechanically locked when powered off to prevent rotation
15	Gimbal Power Supply	DC24V-28V
16	Operating Environment	Portable, Ground-fixed, Vehicle-mounted, Ship-mounted, etc.

Part I BWR-T/A/G Series Low-Altitude Surveillance Radar

BWR-T18 Low-Altitude Surveillance Radar

Operating in continuous wave mode and utilizing simultaneous multi-beam and advanced signal processing technologies, this radar can swiftly and accurately determine the position and movement of targets in complex, dense multi-target environments. It is a three-coordinate radar with integrated air-to-ground detection capability.

This radar can rapidly detect and continuously track targets such as drones, aircraft, and birds, while also monitoring ground personnel, vehicles, and surface vessels.

Main functions are as follows:

1) Under equivalent power conditions, it offers a larger coverage area compared to similar competing products, enabling users to establish a greater defense perimeter.

2) Provides higher precision, delivering stable and accurate sensing data for command decisions and target tracking countermeasures.

3) Achieves detection coverage with a radius of up to 15 km and an elevation angle range of 64°, significantly enhancing the user's defense range.

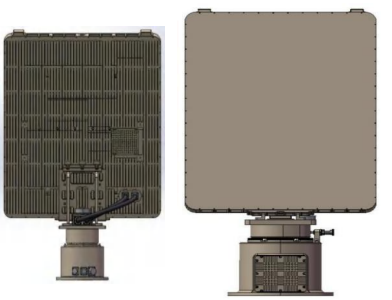
4) With a high refresh rate of 2 seconds, it can track high-speed maneuvering targets traveling up to 150 m/s, effectively boosting defense capability.

5) Can be applied in dense multi-target scenarios,

(6) Reduces installation and transportation burden, making it more suitable for mobile deployment

(7) Lower electromagnetic radiation and enhanced resistance to electromagnetic interception

(8) Features automatic positioning function



Main Technical Specifications:

No.	Parameters	Specification
1	Operating frequency band	X-band
2	Operating mode	Azimuth scanning + elevation DBF
3	Number of frequency points	6
4	Measurement range	50m~15km
5	Azimuth coverage	360°
6	Maximum detection altitude	2000m
7	Elevation coverage	-4°~60°
8	Velocity measurement	1m/s~150m/s
9	Detection capability (RCS 0.01 m² / Phantom 4)	≥8km
10	Detection capability (RCS 1 m²)	≥15km
11	Detection capability (RCS 5 m²)	≥15km
12	Distance Measurement Accuracy (RMS)	≤5m
13	Speed Measurement Accuracy (RMS)	≤0.5m/s
14	Angle Measurement Accuracy	0.4° (AZ) / 0.4° (EL)
15	Target Refresh Rate	2s, 3s
16	Number of Simultaneously Tracked Targets	≥300 batches
17	Operating Temperature	-40℃~55℃
18	Protection Level	IP66
19	Power Supply	DC36-52V
20	ID Number	≤330W
21	Communication	Ethernet: TCP/IP
22	Dimensions	≤680×655×115 (Radar Host)
23	Weight	≤35 kg (including Rotating Platform)

Part II Drone Detection Radar

UAV Detection Radar

The integrated drone detection and strike device combines radio direction-finding and radio jamming equipment, forming a system capable of detecting drone signals in the 300 MHz to 6 GHz frequency range within a 5 km radius circular area. It enables detection, identification, and jamming of drones, suppressing five common drone frequency bands: 433 MHz, 915 MHz, 2.4 GHz, 5.2 GHz, and 5.8 GHz. The system can also adjust parameters such as operating frequency, bandwidth, and jamming mode based on guidance information.

Main functions are as follows:

(1) High detection accuracy: Leveraging advanced signal processing algorithms and system hardware architecture, this radar delivers outstanding precision in measuring distance, velocity, azimuth, and altitude.

(2) Large capacity and wide-area detection: Utilizing a 2D AESA design, it provides full 360° azimuth coverage and can detect and track multiple moving targets in real-time across the entire field of view.

(3) High refresh rate and precise tracking: Operating at a high refresh rate and applying advanced tracking filter algorithms, this radar significantly enhances tracking performance for high-speed and highly maneuverable targets.

(4) High sensitivity and low false alarm rate: advanced clutter suppression technology effectively extracts weak target signals in complex electromagnetic environments while maintaining an extremely low false alarm probability, significantly enhancing radar performance.

(5) All-solid-state design and high reliability: without mechanical scanning components, the equipment offers high reliability and low maintenance costs.

(6) Flexible beam control: supports target tracking functions, enabling precise monitoring of multiple targets.

Main Technical Specifications:

No.	Parameter	Indicator
1	Operating Frequency Band	X-band
2	Measurement range	Detection range: ≥15 km Blind Spot: ≤150 m Azimuth Coverage: 360° Elevation Coverage: -2° to 45° Maximum Detection Altitude: 2000 m Speed Measurement Range: 1 to 150 m/s
3	Detection Range	Small Drone (RCS = 0.01 m², DJI Phantom 4): ≥10 km Medium Drone (RCS = 1 m²): ≥15 km Car, Helicopter (RCS = 5 m²): ≥15 km
4	Measurement Accuracy (RMS)	Distance Accuracy: ≤8 m; Speed Accuracy: ≤0.5 m/s; Angle Accuracy: Azimuth ≤0.3°, Elevation ≤0.3°
5	Refresh Rate	2.5s (TWS), 0.25s (Tas; single array for 2 targets, 4 arrays for 8 targets)
6	Synchronous Tracking Capability	≥500 targets (single-sided array)
7	Operating Temperature and Humidity	-40℃~+55℃,≤90%
8	Weight	≤140kg (four-sided array) (excluding accessories)

Part I RD Series Low-Altitude Radar

The RD Series Low-Altitude Surveillance Radar can automatically track and establish tracks for over 200 targets, outputting high-precision position information. It performs real-time search and detection of UAV targets, measuring range, azimuth, altitude, and other parameters, and reports the air situational information to the low-altitude target detection, identification, and defense system platform, displaying the target's motion tracks on a map. The radar also features preliminary identification capabilities, distinguishing between airborne UAVs, birds, and ground targets such as personnel and vehicles.

The system can be mounted on vehicle rooftops or building rooftops, serving as either a mobile monitoring station or a fixed monitoring station, ensuring low-altitude security for key locations 24/7, in all weather conditions, and across all dimensions.

RD05X

High Integration | High Precision | False Alarm Suppression

- High Detection Accuracy
- Extended Detection Range
- Strong Surveillance Capability
- Low Cost & Compact Size

Technical Specifications

Parameter	Value
Radar Band	X-band
Detection Range	≥5 km (RCS = 0.01 m²)
Update Rate	2 s
Target Capacity	≥200 tracks
Measurement Accuracy	Azimuth ≤0.5°; Elevation ≤0.5°
Ingress Protection Rating	IP66
Power Supply	AC220V/50Hz
Communication	Gigabit Ethernet

RD08X

High Integration | High Precision | False Alarm Suppression

- High Detection Accuracy
- Extended Detection Range
- Strong Surveillance Capability
- Low Cost & Compact Size

Technical Specifications

Parameter	Value
Radar Band	X-band
Detection Range	≥5 km (RCS = 0.01 m²)
Update Rate	2 s
Target Capacity	≥200 tracks
Measurement Accuracy	Azimuth ≤0.5°; Elevation ≤0.5°
Ingress Protection Rating	IP66
Power Supply	AC220V/50Hz
Communication	Gigabit Ethernet

Part II Anti UAV Series EO/IR Gimbal

The Anti UAV Series EO/IR Gimbal integrates multiple detection devices, including HD visible light, near-infrared laser, and MWIR/LWIR thermal imaging. It can be paired with multi-band jammers for interception and countermeasure operations, providing 24/7, all-weather, multi-dimensional security capabilities for key areas and critical facilities. Furthermore, based on deep learning algorithms, it incorporates intelligent control, intelligent management, and intelligent analysis modules, enabling automatic target acquisition, stable tracking, and target recognition. The system can operate independently or in coordination with radar, rapidly acquiring, tracking, and recognizing targets based on cueing information sent by the radar.

DMS15 Long-Range Anti-UAV Camera

24/7-All-weather operation | Stable Tracking | Stable Tracking

Technical Specifications

Parameter	Value
Operating Range	Thermal imaging:800 m; Visible light:≥1.5 km
Thermal Imaging	Detector:Uncooled VOx infrared focal plane Spectral range:8μm~14 μm Lens focal length:25 mm~75 mm、100 mm
Visible Light	Sensor:Starlight-level CMOS, ICR day/night switching Resolution:Better than 1920×1080 Lens:11 ~270 mm HD motorized zoom lens
Intelligent Analysis	Supports target classification and recognition of people, vehicles,UAVs,birds,etc.
Tracking Mode	Supports multi-target detection, automatic acquisition, radar cueing, and tracking in complex backgrounds

DMA35 Medium-Range Anti-UAV EO/IR Gimbal

Intelligent | High Precision | High Precision

Technical Specifications

Parameter	Value
Operating Range	Tracking distance ≥2000 m
Thermal Imaging	Detector:6th generation uncooled focal plane array VOx detector Resolution:640×512/1280×1024 Lens focal length:31 mm~155 mm
Visible Light	Sensor:1/1.8" starlight-level CMOS, ICR day/night switching Lens:25 ~500 mm, megapixel HD motorized zoom; manual/automatic focus
Laser Rangefinder	Laser wavelength:Eye-safe Ranging range:100 m~3000 m(DJI Phantom 4 target)
Intelligent Analysis	Supports target classification and recognition of people,vehicles,UAVs,birds,etc.
Tracking Mode	Supports multi-target detection, automatic acquisition, radar cueing, and tracking in complex backgrounds

Part III Z50 Long-Range Anti-UAV EO/IR Gimbal

24/7-All-weather operation

Intelligent

High Load Capacity

High Precision

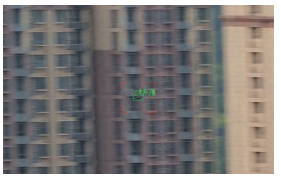
Stable Tracking

Full Coverage

Technical Specifications

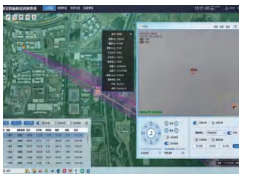
Parameter	Value
Operating Range	Tracking distance≥5000 m
Thermal Imaging	Detector:Cooled Mercury Cadmium Telluride (MCT) infrared focal plane array Resolution:640×512 Lens focal length:90 ~1100 mm,12×continuous zoom lens
Visible Light	Sensor:1/1.8" starlight-level CMOS, ICR day/night switching Resolution:2688×1520 Lens:12.5 mm~775 mm HD motorized zoom lens
Laser Rangefinder (Optional)	Range:5000 m/300 m(target size≥0.3 m×0.3 m) Ranging accuracy:±3 m
Intelligent Analysis	Supports classification and recognition of targets including people, vehicles, UAVs, birds, etc.
Tracking Mode	Supports multi-target detection, automatic acquisition, radar cueing, and tracking in complex backgrounds
Tracking Display	Equipped with eagle-eye view of tracked target;supports2×/4×/8×magnification display of the target
Servo Pan-Tilt	Acceleration:Horizontal 150°/s², Elevation 150°/s² Drive method:High-torque rare-earth permanent magnet synchronous motor direct drive, high-speed start/stop Positioning accuracy:Better than 0.005°

Application Effect

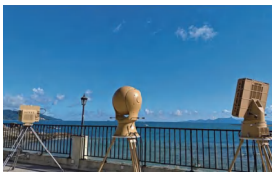


Complex Background Tracking

UAV Target Recongnition



Integrated Target Detection



Fixed Installation

Vehicle-mounted Installation

Vehicle-mounted Installation

Part IV RJNS545 UAV Detection, Countermeasure&Spoofing Integrated System

The RJNS545 UAV Detection, Countermeasure & Spoofing Integrated System is a high-end equipment dedicated to low-altitude electromagnetic spectrum sensing and signal interference security control. It can capture and automatically match spectrum signals of low-altitude UAV targets in real time, outputting high-precision signal source bearing and spectrum characteristic information. Meanwhile, equipped with jamming and spoofing modules, it can quickly perform interference suppression and navigation deception on UAV signals.

High Integration | Multi-Mode | Intelligent | Wide Adaptability

- Portable integration, one-station operation
- Detection & countermeasure synchronized, instantaneous response
- Full-band detection, precise control
- Multi-mode adaptability, wide range of scenarios

Technical Specifications

Parameter	Value
Detection	1、Detection frequency band：300 MHz~6000 MHz 2、Operating range：≥5 km 3、Detection coverage：Azimuth:0°~360°、Elevation:0°~30°、Direction finding accuracy:≤5°(RMS) 4、Direction finding target response time：2s
Jamming	1、Jamming frequency band:300 MHz~6000 MHz 2、Antenna beam control:Directional jamming; omnidirectional optional 3、Operating range:≥3 km 4、Capability:Simultaneous jamming of telemetry/command&data links and satellite navigation signals 5、Simultaneous jamming channels for telemetry/command&data links:≥4 channels
Spoofing	1、Spoofed navigation systems:GPS/BDS/GLONASS/Galileo 2、Antenna beam control:Directional spoofing; omnidirectional optional 3、Spoofing range:≥5 km
System (Whole Unit)	1、Power supply：220 VAC 2、Power consumption：≤1500 W 3、Communication：Ethernet (RJ45)