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NEBULA TECH

NEBULA SATCOM TECHNOLOGY

A technology innovation enterprise integrating R&D, production, and sales.

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西安星云信通通信科技有限公司

Nebula Satcom Technology Co.,Ltd.

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COMPANY PROFILE

Nebula Satcom Technology Co., Ltd., founded in 2018, is headquartered in the Xi'an National High-tech Industrial Development Zone, with a branch office in Chengdu.It is a technology innovation enterprise supported by the Shaanxi Provincial Government, integrating R&D, production, sales, and service.The company focuses on satellite reconnaissance, remote sensing and telemetry, satellite communications, and microwave reconnaissance.With nearly 100 employees, including over 40 R&D engineers, Nebula Satcom has been recognized as a "Specialized and Sophisticated Enterprise" and a "Gazelle Enterprise" of Shaanxi Province.

Nebula Satcom provides complete solutions for telemetry, data transmission, and reconnaissance of satellites, rockets, UAVs, and other platforms, supporting man-portable, vehicle-mounted, and shipborne applications in complex environments.Adhering to the values of "Craftsmanship, Innovation, and Win-Win Cooperation," the company continuously strengthens technological innovation and quality management, aiming to become a leading supplier in the satellite application system industry.

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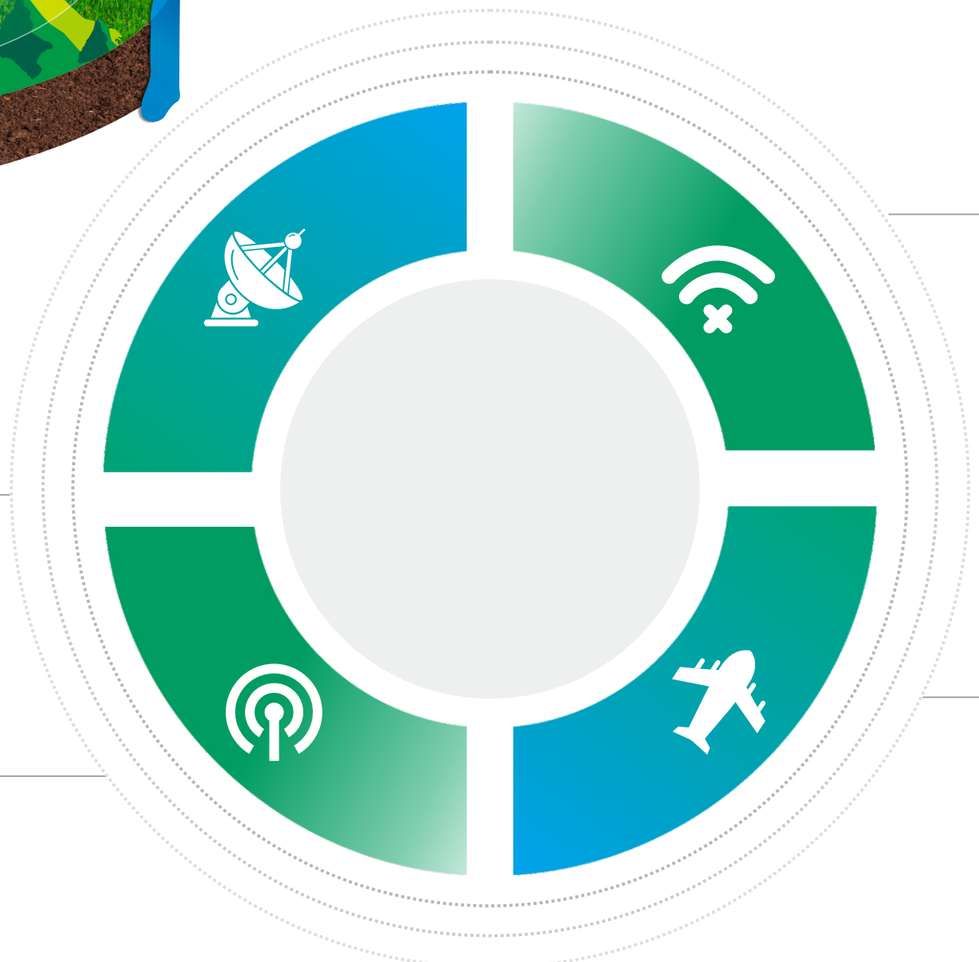

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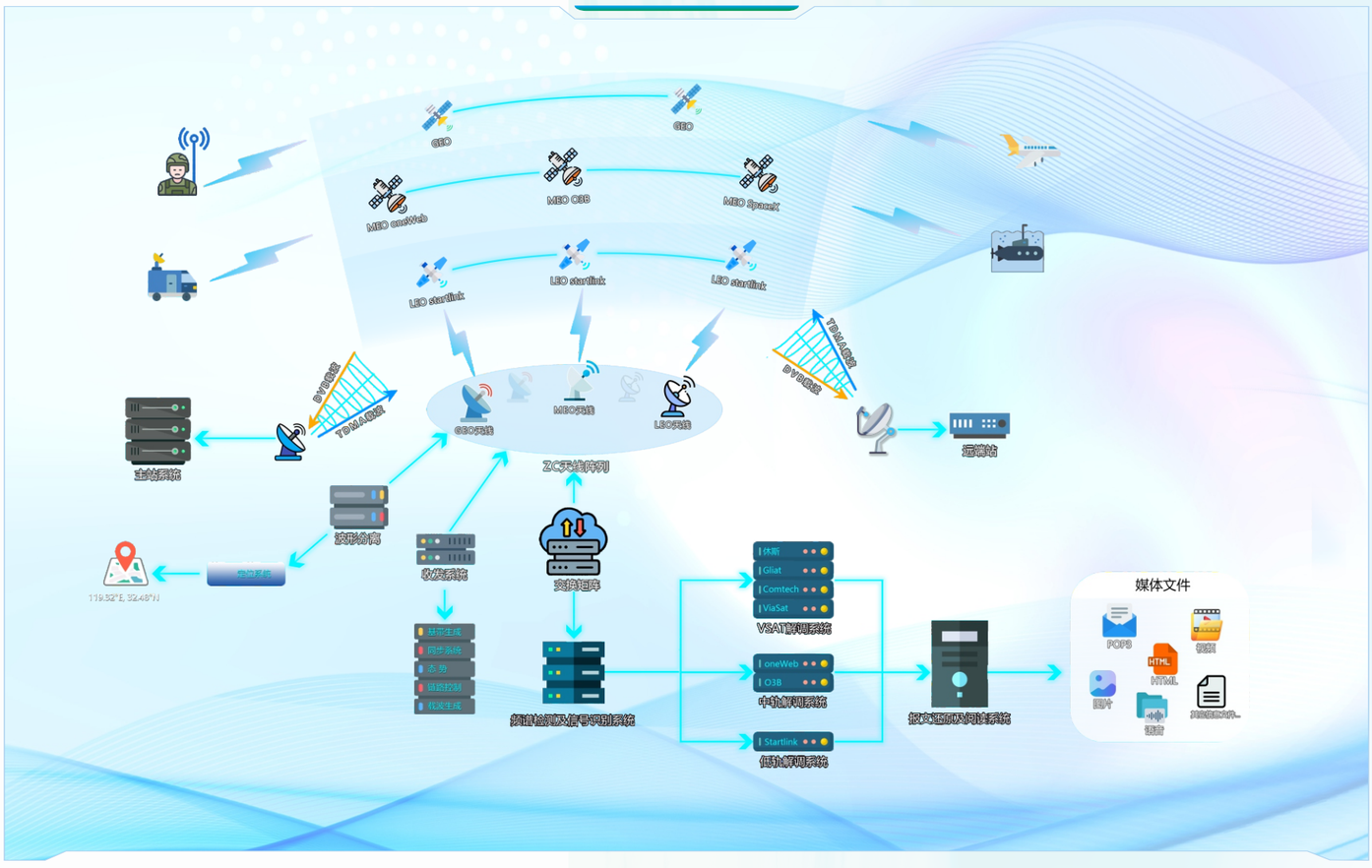
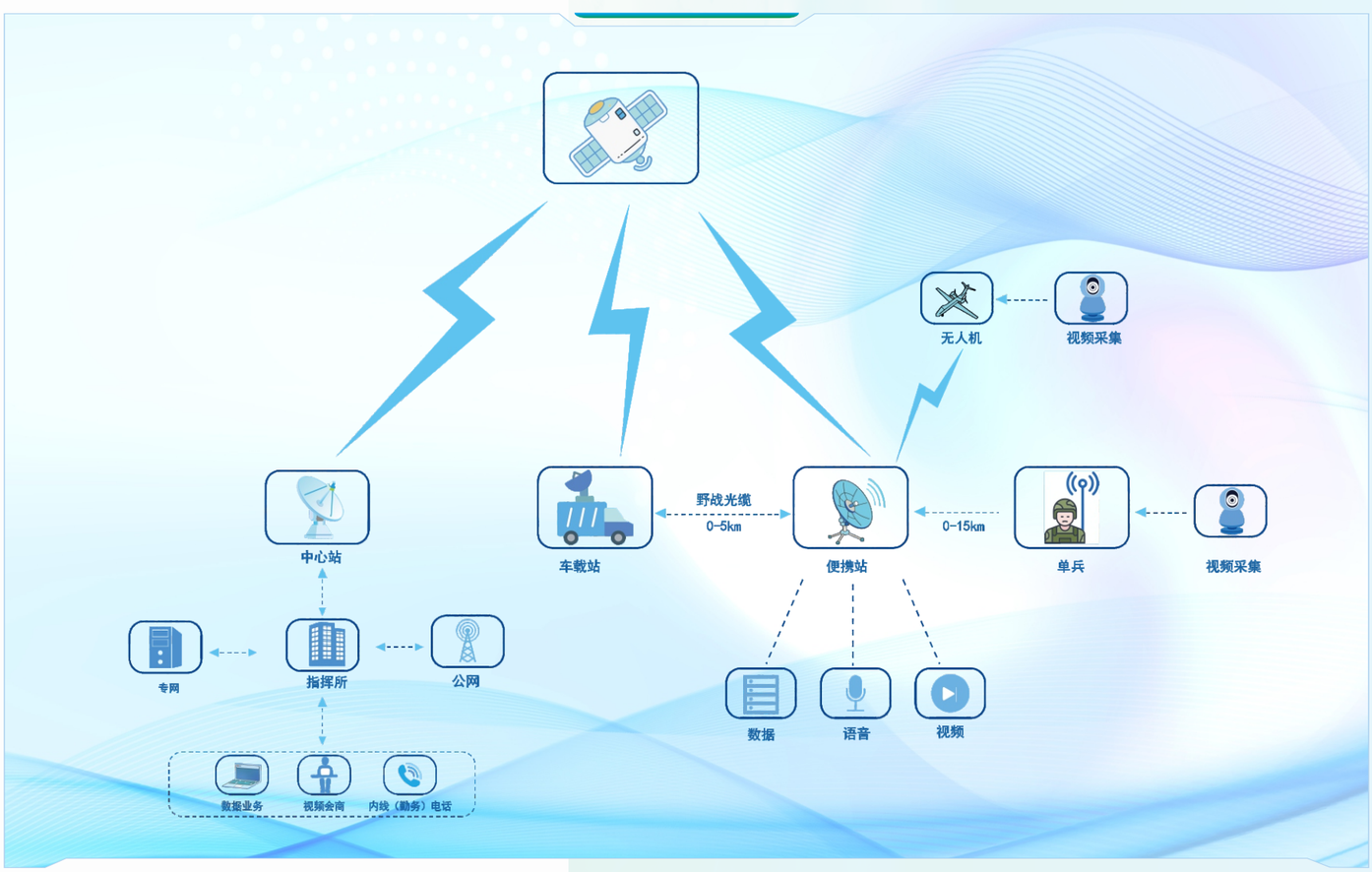
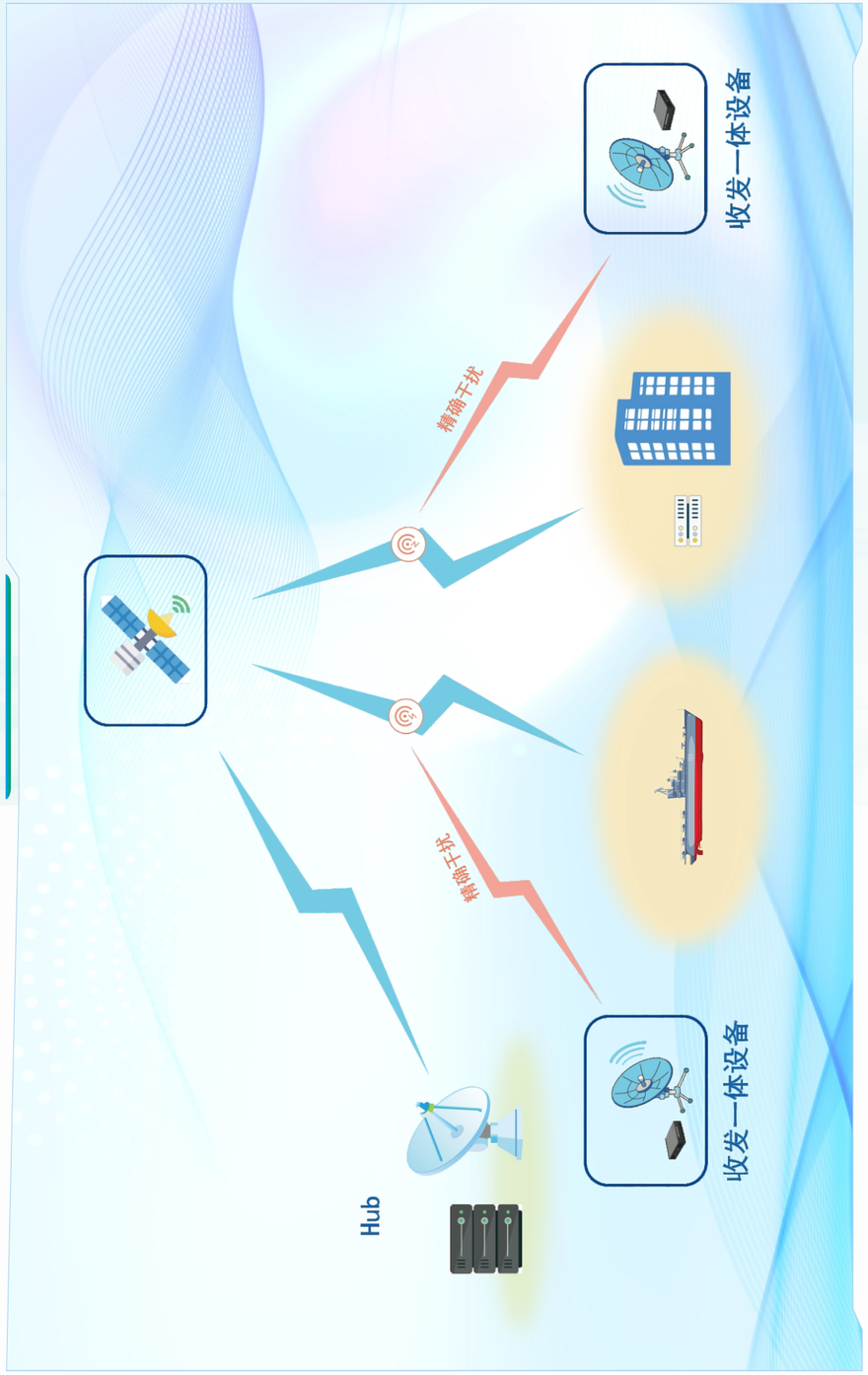


SATELLITE COMMUNICATION SYSTEM



SATELLITE SIGNAL PROCESSING AND JAMMING



SIGNAL PROCESSING

VSAT network demodulation equipment

Supports 10+ VSAT network types, including iDirect, Hughes, Viasat, Gilat, and Comtech UHP.
Enables 1/2/4 networks to be monitored and controlled simultaneously.
Compatible with star, mesh, and hybrid network topologies.
FPGA-based platform with high reliability and stability.
Performs decoding under low SNR, with degradation within 0.5 dB of theoretical values.
Automatically identifies TDMA and hub DVB carriers (e.g. iDirect Evolution/Velocity, Hughes HX/HN, UHP, SkyEdge-II, Jupiter).
Supports demodulation and decoding of both hub DVB and remote TDMA carriers.
Allows automatic or manual TDMA parameter configuration for demodulation and decoding.
Output data: BBF, TS/GS, MPE, IP, DDC, baseband, decoded data (with timestamping).
Provides spectrum, time-frequency, and constellation display functions.
Displays lock status, frequency offset, SNR, burst count, and frame error rate.
All processing and display done within the device (no external server required).
Supports external timing input (IRIG-B, BeiDou/GPS).
B/S architecture for remote configuration and monitoring.

01 HX/HN Series Demodulation and Processing Equipment

Input Frequency	950MHz～2150MHz；	
Signal Input	1-4 Channels；	
Input Level Range	-70dBm～-20dBm；	
Hub Demod.	Carrier Support	1；
	Signal Standard	DVB-S2、DVB-S2X ACM；
	Symbol Rate	0.3Msps～72Msps；
	Modulation Type	QPSK、8PSK、16APSK、32APSK；
	Coding Format	LDPC code of DVB-S2/S2X standard, Code Rate1/2, 3/5, 2/3, 3/4, 5/6, 8/9, 9/10；
	Demodulation	Eb/N0=4dB，QPSK，LDPC3/4，Normal Frame，BER<1x10^{-5}；
Remote Demod.	Carrier Support	≥32；
	Carrier Symbol	128、256、512、1024、2048、4096、6144Ksps；
	Modulation Type	OQPSK；
	Coding Spec.	HX TCC Coding，Code Rate: 1/2、2/3、4/5， HX LDPC Coding，Code Rate：1/2、2/3、4/5、9/10；
	Signal Bandwidth	≥2×72MHz；
	Total Symbol Rate	≥80Msps；
	Burst Acq. Perf	when Eb/N0=5.5dB and OQPSK modulation is applied，≤1x10^{-5}，
	Demodulation	when Eb/N0=5.5dB, OQPSK modulation is applied，and when Coding rate is 1/2≤1x10^{-5}；

• Dev. I/F

Input Signal I/F	N-50K；
Monitoring I/F	RJ45 1000Mbps；
Data I/F	RJ45 1000Mbps、SFP 10Gbps；
Time Sync I/F	IRIG-B，RS422 Level；BeiDou/GPS，SMA-50K；
Power I/F	220V AC/50Hz, With Fuse；

• Dev. FF

Volume	19-inch standard chassis, rack-mounted type，height≤3U；
Device Weight	≤20Kg；

02 Jupiter Series Demodulation and Processing Equipment

Input Frequency	9 50MHz～2150MHz；	
Signal Input	1-2 Channels；	
Input Level Range	-70dBm～-20dBm；	
Hub Demod.	Carrier Support	1；
	Signal Standard	DVB-S2、DVB-S2X ACM；
	Symbol Rate	1Msps～72Msps；
	Modulation Type	QPSK、8PSK、16APSK、32APSK；
	Coding Format	DVB LDPC & Hughes Prop. LDPC；
	Demodulation	when Eb/N0=4dB，DVB-S2 QPSK 3/4，normal frame，BER<1x10^{-5}；
Remote Demod.	Carrier Support	≥32个；
	Symbol Rate	256ksps～12.288Msps；
	Modulation Type	OQPSK、QPSK、8PSK；
	Coding Format	LDPC；
	Coding Rate	1/2、2/3、4/5、8/9、9/10；
	Signal Bandwidth	≥2×72MHz；
	Total Symbol Rate	≥80Msps；
	TDMA Freq. Offset Tol.	±1%×Symbol rate；
	when OQPSK 1/2 Eb/N0 =5.5dB，TDMA Demodulation and decoding performance≤1x10^{-5}；	

• Dev. I/F

Input Signal I/F	N-50K；
Monitoring I/F	RJ45 1000Mbps；
Data I/F	RJ45 1000Mbps、SFP 10Gbps；
Time Sync I/F	IRIG-B ，Rs422 Level；BeiDou/GPS，SMA-50K；
Power I/F	220V AC/50Hz, With Fuse；

• Dev. FF

Volume	19-inch standard chassis, rack-mounted type，height≤2U；
Device Weight	≤20Kg；

03 iDirect Series Demodulation and Processing Equipment

iDirect Velocity System:

Hub Demod.	Signal Standard	DVB-S2、DVB-S2X ACM;
	DVB Demod. type	QPSK，8PSK，16APSK，32APSK，64APSK，128APSK，256APSK;
	DVB Symbol Rate Range	256Ksps～64Msps;
	Demod. Performance (Typical value)	
		BER≤1x10^{-5}(Eb/N0=6dB，DVB-S2，QPSK，LDPC 3/4 Coding rate);
Remote Demod.	TDMA Demod. Type	BPSK，QPSK，8PSK、16QAM;
	TDMA Symbol Rate Range	256Ksps～10Msps;
	TDMA Channel Decoding	6 types of TCC，coding rate 1/2，2/3，3/4，4/5，5/6，6/7;
	TDMA UW Insert Type	Interleaved;
	Total Symbol Rate	≥80Msps;
	Burst Det. Pkt Loss Rate	≤10^{-5}，（When Eb/N0=5.5dB，QPSK）;
	Burst Demod. BER	≤10^{-5}，（Eb/N0=5.5dB，QPSK，TCC1/2）;

iDirect Evolution System:

Hub Demod.	Signal Standard	DVB-S2、DVB-S2X ACM;
	DVB Demod. type	QPSK，8PSK，16APSK，32APSK，支持ACM;
	DVB Symbol Rate Range	256Ksps~45Msps;
	Demod. Performance (Typical value)	
		BER≤1x10^{-5}（Eb/N0=6dB，DVB-S2，QPSK，LDPC 3/4 coding rate）;
Remote Demod.	TDMA Demod. Type	BPSK，QPSK，8PSK;
	TDMA Symbol Rate Range	256Ksps～7.5Msps;
	TDMA Channel Decoding	6 types of TCC, coding rate 1/2，2/3，3/4，4/5，5/6，6/7;
	TDMA UW Insert Type	Pre-inserted/Interleaved;
	Total Symbol Rate	≥80Msps;
	Burst Det. Pkt Loss Rate	≤10^{-5}，（在Eb/N0=5.5dB，QPSK）;
	Burst Demod. BER	≤10^{-5}，（Eb/N0=5.5dB，QPSK，TCC1/2）;

iDirect Infiniti System:

Hub Demod.	SCPC Hub Signal Demod. Type	BPSK，QPSK，8PSK;
	Symbol Rate Range	256Ksps～10Msps;
	Channel Decoding	TPC，Code rates include but are not limited to 0.495，0.533，0.793，
Remote Demod.	TDMA Demod. Type	BPSK，QPSK，8PSK;
	TDMA Symbol Rate Range	256Ksps～7.5Msps;
	TDMA Channel Decoding	TPC，Code rates include but are not limited to 0.431，0.533，0.660，0.793;
	Total Symbol Rate	≥80Msps;
	Burst Det. Pkt Loss Rate	≤10^{-5}，（When Eb/N0=5.5dB）;
	Burst Demod. BER	≤10^{-5}，（Eb/N0=5.5dB，QPSK，TCC，0.533）;

• In. Range

Input Signal Frequency Range	950MHz～2150MHz;
Signal Input	1-4 Channels;
Input Level Range	-70dBm～-20dBm;

• Dev. I/F

Input Signal I/F	N-50K;
Monitoring I/F	Rj45 1000Mbps;
Data I/F	RJ45 1000Mbps、SFP 10Gbps;
Time Sync I/F	IRIG-B，RS422 Level；BeiDou/GPS，SMA-50K;
Power I/F	220V AC/50Hz;

• Dev. FF

Volume	19-inch standard chassis, rack-mounted type，height≤3U;
Device Weight	≤20Kg;

04 Comtech-UHP Series Demodulation and Processing Equipment

Input Signal Frequency Range		950MHz~2150MHz;
Signal Input		1-4 Channels;
Input Level Range		-65dBm~-20dBm;
Hub Demod.	Carrier Support	1;
	Signal Standard	DVB-S2、DVB-S2X ACM;
	Symbol Rate	1Msps~72Msps;
	Modulation Type	QPSK、8PSK、16APSK、32APSK;
	Coding Format	1/3、2/5、1/2、3/5、2/3、3/4、5/6、8/9、9/10;
	Demodulation	When Eb/N0=4dB，DVB-S2 QPSK 3/4，Normal Frame，BER<1x10^{-5};
Remote Demod.	Carrier Support	⩾32;
	Rx Processing BW	⩾72MHz;
	Total Symbol Rate	⩾80Msps
	Modulation Type	QPSK、8PSK、16APSK;
	Coding Type	1/2、2/3、3/4、5/6 LDPC coding;
	Symbol Rate	0.1Msps~10Msps;
	Burst Det. Pkt Loss Rate	Eb/No=6dB，QPSK，<1x10^{-5};
	Burst Demod. BER	Eb/No=6dB，QPSK，LDPC2/3，<1x10^{-5};

• Dev. I/F

Input Signal I/F	N-50K;
Monitoring I/F	RJ45 1000Mbps;
Data I/F	RJ45 1000Mbps、SFP 10Gbps;
Time Sync. I/F	IRIG-B ，Rs422 Level；BeiDou/GPS，SMA-50K;
Power I/F	220V AC/50Hz, With Fuse;

• Dev. FF

Volume	19-inch Standard Chassis，rack-mounted type，height⩽3U;
Device Weight	⩽20Kg;

05 SkyEdge-II Series Demodulation and Processing Equipment

Input Signal Frequency Range		950MHz~2150MHz;
Signal Input		1-4 Channels;
Input Level Range		-70dBm~-20dBm;
Hub Demod.	Carrier Support	1;
	Signal Standard	DVB-S2 ACM;
	Symbol Rate	0.3Msps~64Msps;
	Modulation Type	QPSK、8PSK、16APSK、32APSK;
	Coding Format	LDPC code, Code rate1/4、1/3、2/5、1/2、2/3、3/4、4/5、5/6、8/9、9/10;
Remote Demod.	Carrier Support	⩾32;
	Carrier Symbol Rate	128Ksps~2.56Msps;
	Modulation Type	QPSK、8PSK;
	Coding Type	RCS TCC coding，coding rate：1/2、2/3、3/4、4/5、6/7;
	Signal Bandwidth	⩾2×72MHz;
	Total Symbol Rate	⩾80Msps;
	Burst Det. Performance	Pkt Loss Rat⩽1×10^{-5}（Eb/N0=5.5dB，QPSK），（BER）⩽1×10^{-5}（Eb/N0=5.5dB，QPSK，coding rate1/2, Information length 216 bytes）;
	Burst Demod. BER	

• Dev. I/F

Input Signal I/F	N-50K;
Monitoring I/F	RJ45 1000Mbps;
Data I/F	RJ45 1000Mbps、SFP 10Gbps;
Time Sync. I/F	IRIG-B，RS422 Level；BeiDou/GPS，SMA-50K;
Power I/F	220V AC/50Hz, With Fuse;

• Dev. FF

Volume	19-inch Standard Chassis，rack-mounted type，height⩽3U;
Device Weight	⩽20Kg;

06 LinkWayS2 Series Demodulation and Processing Equipment

• Demod.

Input Signal Frequency Range	950MHz～2150MHz；
Signal Input	1-4 Channels；
Input Level Range	-70dBm～-20dBm；
Carrier Support	⩾32；
Processing Capability	Total Symbol Rate⩾80Msps；
TDMA Demod. Mode	BPSK、QPSK、8PSK；
TDMA Symbol Rate	0.3125/0.625/1.25/2.5/5/10Msps；
TDMA Decoding Spec.	TCC（1/3、1/2、2/3、3/4、4/5、6/7）
Burst Det. Pkt Loss Rate	⩽10^{-5}（Eb/N0=5.5dB、QPSK）；
Burst Demod. & Dec. Pkt Error Rate	⩽10^{-5}（Eb/N0=5.5dB、QPSK、TCC 1/2）；

• Dev. I/F

Signal Input I/F	N-50K；
Monitoring I/F	RJ45 1000Mbps；
Data I/F	RJ45 1000Mbps、SFP 10Gbps；
Time Sync. I/F	IRIG-B，RS422 Level；BeiDou/GPS，SMA-50K；
Power I/F	220V AC/50Hz；

• Dev. FF

Volume	19-inch standard chassis，rack-mounted type，height⩽3U；
Device Weight	⩽20Kg；

DVB signal receiving and processing equipment

Supports demodulation/decoding of DVB-S (EN 300 421), DVB-S2 (EN 302 307-1), and DVB-S2X (EN 302 307-2).
Supports O3b / OneWeb signal demodulation and decoding.
Supports non-standard (proprietary) coding schemes.
Provides four independent L-band inputs capable of operating across transponders and polarizations.
Fully indigenous and controllable design, with a complete FPGA-based implementation.
Status visualization: spectrum, demodulation constellation, lock parameters, and signal specifications.
Output capabilities: demodulated IQ data, baseband frames, TS/GS streams, IP data, and A/V programs with message reconstruction.

Input Range	950MHz～2150MHz；
Input Level	-70dBm～-20dBm；
Signal Input	4 Channels；
Demod. Symbol Rate Lock Range	100ksps～128Msps；
IQ Data Output Symbol Rate Range	300ksps～120Msps；
Information Rate per Carrier after Decoding	⩽250Mbps；

Modulation Type, Coding Rate, and Roll-off Factor

Support Symbol Rate Range:

DVB-S:

QPSK	1/2、2/3、3/4、5/6、7/8；
Roll-off Factor	0.35；

DVB-S2:	
Normal Frame 64800（bit）	QPSK：1/4,1/3,2/5,1/2,3/5,2/3,3/4,4/5,5/6,8/9,9/10
	8PSK：3/5,2/3,3/4,5/6,8/9,9/10
	16APSK：2/3,3/4,4/5,5/6,8/9,9/10
	32APSK：3/4,4/5,5/6,8/9,9/10
Short Frame 16200（bit）	QPSK：1/4,1/3,2/5,8/9,9/10
	8PSK：3/5,2/3,3/4,5/6,8/9
	16APSK：2/3,3/4,4/5,5/6,8/9
Roll-off Factor	0.1,0.2,0.25,0.35
DVB-S2X:	
Normal Frame 64800（bit）	QPSK：1/4,1/3,2/5,1/2,3/5,2/3,3/4,4/5,5/6,8/9,9/10(S2-MODCODs)
	13/45,9/20,11/20
	8PSK：3/5,2/3,3/4,5/6,8/9,9/10(S2-MODCODs)
	23/36,25/36,13/18
	8PSK-L：5/9,26/45
	16APSK：2/3,3/4,4/5,5/6,8/9,9/10(S2-MODCODs)
	26/45,3/5,28/45,23/36,25/36,13/18,7/9,77/90
	32APSK：3/4,4/5,5/6,8/9,9/10(S2-MODCODs)
	32/45,11/15,7/9
	32APSK-L：2/3
	64APSK：11/15,7/9,4/5,5/6
	64APSK-L：32/45
	128APSK：3/4,7/9
	256APSK：32/45,3/4
	256APSK-L：29/45,2/3,31/45,11/15
Short Frame 16200（bit）	QPSK：1/4,1/3,2/5,8/9,9/10(S2-MODCODs)
	1/2,3/5,2/3,3/4,4/5,5/6,11/45,4/15,14/45,7/158/15,32/45
	8PSK：3/5,2/3,3/4,5/6,8/9(S2-MODCODs)
	7/15,8/15,26/45,32/45
	16APSK：2/3,3/4,4/5,5/6,8/9(S2-MODCODs)
	7/15,8/15,26/45,3/5,32/45
	32APSK：2/3,32/45
Roll-off Factor	0.05,0.1,0.15,0.2,0.25,0.35

SATELLITE TRANSCEIVER ANTENNA

IRIDIUM ANTENNA

Frequency	1616MHz- 1626.5MHz
Polarization Type	Circular Polarization
Gain	⩾3.0dBi
VSWR	⩽2.0:1
Interface	N-50K
Op. Temp.	-40℃~+60℃
Stor. Temp.	-55℃~+70℃
IP Rating	IP65
configuration	LNA, Tripod

IRIDIUM FLAT-PANEL PORTABLE ANTENNA

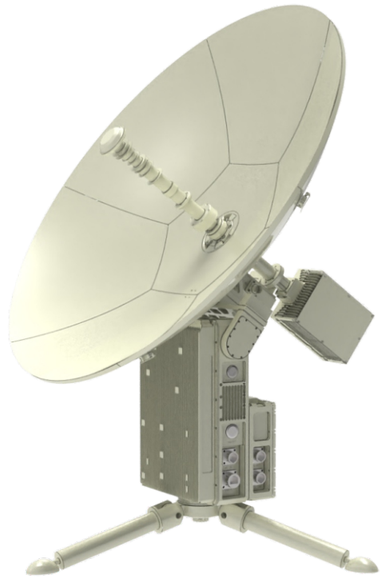
Frequency	1616MHz- 1626.5MHz
Polarization Type	RHCP
Gain	⩾11.0dBi
VSWR	⩽2.0:1
Interface	N-50K
Op. Temp.	-40℃~+60℃
Stor. Temp.	-55℃~+70℃
IP Rating	Ip65

MARITIME TRURAYA ANTENNA

Frequency	1518MHz~1675MHz
Polarization Type	Dual Circular Polarization
Gain	≥18.0dBi
VSWR	≤2.0:1
Interface	N-50K
Op. Temp.	-40℃~+60℃
Stor. Temp.	-55℃~+70℃
IP Rating	Ip65

LOG-PERIODIC ANTENNA

Frequency	30MHz -2.00GHz
Polarization Tyoe	Linear
Gain	≥6.5dBi
VSWR	≤2.0:1
Movement Range	0° ~360°
Interface	N-50K
Op. Temp.	-40℃~+60℃
Stor. Temp.	-55℃~+70℃
IP Rating	Ip65



0.5/0.6/0.8M AUTO FLYAWAY ANTENNA

Frequency	Ka Rx: 17.70GHz~21.20GHz
	Tx: 29.00GHz~31.00GHz
	Ku Rx: 10.70GHz~12.75GHz
	Tx: 13.75GHz~14.50GHz
Polarization Type	Circular（Ka）
	Linear（Ku）
Gain	
0.5m Aperture	Ka Rx: ≥37.88+20lg（f/20.00）dBi
	Tx: ≥41.33+20lg（f/30.00）dBi
	Ku Rx: ≥34.00+20lg（f/12.25）dBi
	Tx: ≥35.45+20lg（f/14.25）dBi
0.6m Aperture	Ka Rx: ≥39.39+20lg（f/20.00）dBi
	Tx: ≥42.91+20lg（f/30.00）dBi
	Ku Rx: ≥35.36+20lg（f/12.25）dBi
	Tx: ≥ 36.67+20lg（f/14.25）dBi
0.8m Aperture	Ka Rx: ≥41.89+20lg（f/20.00）dBi
	Tx: ≥45.41+20lg（f/30.00）dBi
	Ku Rx: ≥37.86+20lg（f/12.25）dBi
	Tx: ≥ 39.17+20lg（f/14.25）dBi
VSWR	≤1.35:1
Movement Range	Azimuth: ±180°
	Elevation: 10° ~90°
	Polarization: ±90°
Motion Speed	Azimuth: 0.1~3° /s
	Elevation: 0.1~3° /s
Satellite Acquisition Mode	Beacon/DVB
Satellite Acquisition Time	≤3min
OP. Temp.	-40℃~+60℃
Stor. Temp.	-55℃~+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

1.0M MARINE AUTO FLYAWAY ANTENNA

Frequency	Rx：1.525GHz～1.559GHz
	Tx：1.626GHz～1.660GHz
Polarization	Linear
Gain	Rx：≥20.1+20lg（f/1.525）dBi
	Tx：≥20.64+20lg（f/1.626）dBi
VSWR	≤1.5:1
Movement Range	Azimuth：±180°
	Elevation：10° ～90°
	Polarization：±90°
Motion Speed	Azimuth：0.1～3° /s
	Elevation：0.1～3° /s
	Polarization：0.1～3° /s
Op. Temp.	-40℃～+60℃
Stor. Temp	-55℃～+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

1.2M MANUAL BROADBAND FLYAWAY ANTENNA

Frequency	1.00GHz～40.00GHz
Polarization	Linear
Efficiency	≥40%（Type value）
VSWR	≤2.5:1
Movement Range	
	AZ：0° ～360° El：0° ～90° Pol：±90°
Op. Temp.	-40℃～+60℃
Stor. Temp.	-55℃～+70℃
IP Rating	Ip65

Optional Feeds: L / S / C / X / Ku / Ka Bands

1.2M MANUAL FLYAWAY ANTENNA

Frequency	Ka Rx：17.70GHz~21.20GHz
	Tx：29.00GHz~31.00GHz
	Ku Rx：10.95GHz~12.75GHz
	Tx：13.75GHz~14.50GHz
Polarization	Circular（Ka）
	Linear（Ku）
Gain	Ka Rx：≥45.41+20lg（f/20.00）dBi
	Tx：≥48.93+20lg（f/30.00）dBi
	Ku Rx：≥41.15+20lg（f/12.25）dBi
	Tx：≥42.46+20lg（f/14.25）dBi
VSWR	≤1.35:1
Movement Range	
	AZ：±180° EL：0° ~90° Pol：±90°
Op. Temp.	-40℃~+60℃
Stor. Temp	-55℃~+70℃
IP Rating	IP65

Optional Feed: L/S

1.2M AUTO FLYAWAY ANTENNA

Frequency	Ka Rx：17.70GHz~21.20GHz
	Tx：29.00GHz~31.00GHz
	Ku Rx：10.70GHz~12.75GHz
	Tx：13.75GHz~14.50GHz
Polarization	Circular（Ka） Linear（Ku）
Gain	Ka Rx：≥45.41+20lg（f/20.00）dBi
	Tx：≥48.93+20lg（f/30.00）dBi
	Ku Rx：≥41.15+20lg（f/12.25）dBi
	Tx：≥42.46+20lg（f/14.25）dBi
VSWR	≤1.35:1
Movement Range	AZ：±180° EL：10° ~90° Pol：±90°
Motion Speed	AZ：0.1~3° /s EL：0.1~3° /s Pol：0.1~3° /s
Satellite Acquisition Mode	Beacon/DVB
Satellite Acquisition Time	≤3min
Op. Temp.	-40℃~+60℃
Stor. Temp.	-55℃~+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

Optional Feed:L/S

1.2 M GRID FLYAWAY ANTENNA

Frequency	3.40GHz～6.00GHz
Polarization	Linear
Gain	≥30.40+20lg（f/4.00）dBi
VSWR	≤1.5:1
Movement Range	AZ：±180° EL：10° ～90° Pol：±90°
Motion Speed	AZ：0.1～3° /s EL：0.1～3° /s
Op. Temp.	-40℃～+60℃
Stor. Temp	-55℃～+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

1.8M MANUAL TRANSPORTABLE ANTENNA

Frequency	Ku Rx：10.70GHz～12.75GHz
	Tx：13.75GHz～14.50GHz
	C Rx：3.40GHz～4.20GHz
	Tx：5.85GHz～6.725GHz
Polarization	Linear
Gain	Ku Rx：≥44.90+20lg（f/12.25）dBi
	Tx：≥46.22+20lg（f/14.25）dBi
	C Rx：≥34.50+20lg（f/3.80）dBi
	Tx：≥38.90+20lg（f/6.30）dBi
VSWR	≤1.5:1
Movement Range	AZ：0° ～360°
	EL：0° ～90°
	Pol：±90°
Op. Temp	-40℃～+60℃
Stor. Temp	-55℃～+70℃
IP Rating	IP65

Optional Feed: L / S / X / ka;
1.00GHz～18.00GHz;
18.00GHz～40.00GHz

1.8M AUTO TRANSPORTABLE ANTENNA

Frequency	Ka Rx：17.70GHz~21.20GHz
	Tx：29.00GHz~31.00GHz
	Ku Rx：10.70GHz~12.75GHz
	Tx：13.75GHz~14.50GHz
	X Rx：7.25GHz~7.75GHz
	Tx：7.90GHz~8.40GHz
	C Rx：3.40GHz~4.20GHz
	Tx：5.85GHz~6.725GHz
Polarization	Circular（Ka / X）
	Linear（Ku / C）
Gain	Ka Rx：≥49.16+20lg（f/20.00） dBi
	Tx：≥52.68+20lg（f/30.00）dBi
	Ku Rx：≥44.90+20lg（f/12.25）dBi
	Tx：≥46.22+20lg（f/14.25）dBi
	X Rx：≥40.41+20lg（f/7.50）dBi
	Tx：≥41.13+20lg（f/8.15）dBi
	C Rx：≥34.50+20lg（f/3.80）dBi
	Tx：≥38.90+20lg（f/6.30）dBi
VSWR	≤1.5:1
Movement Range	AZ：±180° EL：10°~90° Pol：±90°
Motion Speed	AZ：0.1~3°/s EL：0.1~3°/s
Satellite Acquisition Mode	Beacon / DVB
Satellite Acquisition Time	≤3min
Op. Temp.	-40℃~+60℃
Stor. Temp	-55℃~+70℃
Ip Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

Optional Feed: L / S

2.4M MANUAL TRANSPORTABLE ANTENNA

Frequency	Ka Rx：17.70GHz~21.20GHz
	Tx：29.00GHz~31.00GHz
	Ku Rx：10.70GHz~12.75GHz
	Tx：13.75GHz~14.50GHz
	X Rx：7.25GHz~7.75GHz
	Tx：7.90GHz~8.40GHz
	C Rx：3.40GHz~4.20GHz
	Tx：5.85GHz~6.725GHz
Polarization	Circular（Ka / X）
	Linear（Ku / C）
Gain	Ka Rx：≥51.43+20lg（f/20.00）dBi
	Tx：≥54.95+20lg（f/30.00）dBi
	Ku Rx：≥47.17+20lg（f/12.25）dBi
	Tx：≥48.48+20lg（f/14.25）dBi
	X Rx：≥42.91+20lg（f/7.50）dBi
	Tx：≥43.63+20lg（f/8.15）dBi
	C Rx：≥37.00+20lg（f/3.80）dBi
	Tx：≥41.40+20lg（f/6.30）dBi
VSWR	≤1.35:1
Movement Range	AZ：0°~360° EL：10°~90° Pol：±90
Op. Temp.	-40℃~+60℃
Stor. Temp.	-55℃~+70℃
IP Rating	IP65

Optional Feed: L / S / X / ka; 1.00GHz~18.00GHz，
18.00GHz~40.00GHz

2.4M AUTO TRANSPORTABLE ANTENNA

Frequency	Ka Rx: 17.70GHz ~ 21.20GHz
	Tx: 29.00GHz ~ 31.00GHz
	Ku Rx: 10.70GHz ~ 12.75GHz
	Tx: 13.75GHz ~ 14.50GHz
	X Rx: 7.25GHz ~ 7.75GHz
	Tx: 7.90GHz ~ 8.40GHz
	C Rx: 3.40GHz ~ 4.20GHz
	Tx: 5.85Ghz ~ 6.725GHz
Polarization	Circular (Ka / X)
	Linear (Ku / C)
Gain	Ka Rx: ⩾51.43+20lg (f/20.00) dBi
	Tx: ⩾54.95+20lg (f/30.00) dBi
	Ku Rx: ⩾47.17+20lg (f/12.25) dBi
	Tx: ⩾48.48+20lg (f/14.25) dBi
	X Rx: ⩾42.91+20lg (f/7.50) dBi
	Tx: ⩾43.63+20lg (f/8.15) dBi
	C Rx: ⩾37.00+20lg (f/3.80) dBi
	Tx: ⩾41.40+20lg (f/6.30) dBi
VSWR	⩽1.5:1
Movement Range	Az: ±180° EL: 10° ~90° Pol: ±90°
Motion Speed	AZ: 0.1~3° /s EL: 0.1~1° /s
Satellite Acquisition Mode	Beacon / DVB
Satellite Acquisition Time	⩽3min
Op. Temp.	-40℃~+60℃
Stor. Temp.	-55℃~+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

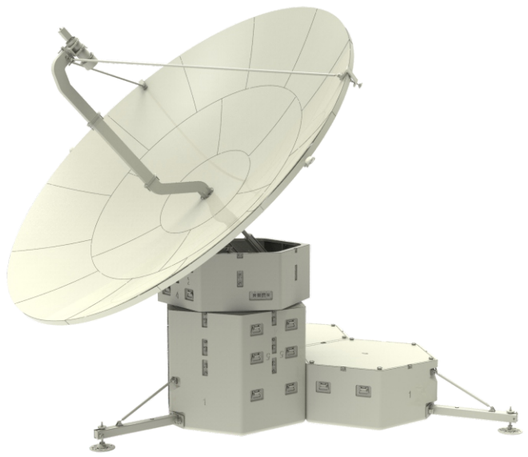
Optional Feed: L / S

3.0M AUTO TRANSPORTABLE ANTENNA

Frequency	Ka Rx: 17.70GHz ~ 21.20GHz
	Tx: 29.00GHz ~ 31.00GHz
	Ku Rx: 10.70GHz ~ 12.75GHz
	Tx: 13.75GHz ~ 14.50GHz
	X Rx: 7.25GHz ~ 7.75GHz
	Tx: 7.90GHz ~ 8.40GHz
	C Rx: 3.40GHz ~ 4.20GHz
	Tx: 5.85GHz ~ 6.725GHz
Polarization	Circular (Ka / X)
	Linear (Ku / C)
Gain	Ka Rx: ⩾53.37+20lg (f/20.00) dBi
	Tx: ⩾56.89+20lg (f/30.00) dBi
	Ku Rx: ⩾49.11+20lg (f/12.25) dBi
	Tx: ⩾50.42+20lg (f/14.25) dBi
	X Rx: ⩾44.85+20lg (f/7.50) dBi
	Tx: ⩾45.57+20lg (f/8.15) dBi
	C Rx: ⩾38.94+20lg (f/3.80) dBi
	Tx: ⩾43.33+20lg (f/6.30) dBi
VSWR	⩽1.5:1
Movement Range	AZ: ±180° EL: 10° ~90° Pol: ±90°
Motion Speed	AZ: 0.1~3° /s EL: 0.1~1° /s
Op. Temp.	-40℃~+60℃
Stor. Temp.	-55℃~+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

Optional Feed: L / S; 1.00GHz-18.00GHz;
18.00GHz-40.00GHz

3.7M AUTO TRANSPORTABLE ANTENNA



Frequency	Ka Rx：17.70GHz～21.20GHz
	Tx：29.00GHz～31.00GHz
	Ku Rx：10.70GHz～12.75GHz
	Tx：13.75GHz～14.50GHz
	X Rx：7.25GHz～7.75GHz
	Tx：7.90GHz～8.40GHz
	C Rx：3.40GHz～4.20GHz
	Tx：5.85GHz～6.725GHz
Polarization	Circular（Ka / X）
	Linear（Ku / C）
Gain	Ka Rx：≥55.19+20lg（f/20.00）dBi
	Tx：≥58.71+20lg（f/30.00）dBi
	Ku Rx：≥50.93+20lg（f/12.25）dBi
	Tx：≥52.24+20lg（f/14.25）dBi
	X Rx：≥46.67+20lg（f/7.50）dBi
	Tx：≥47.39+20lg（f/8.15）dBi
	C Rx：≥40.76+20lg（f/3.80）dBi
	Tx：≥45.16+20lg（f/6.30）dBi
VSWR	≤1.5:1
Movement Range	AZ：±180°（EL 36°以上时）
	EL：10°～90°
	Plo：±90°
Motion Speed	AZ：0.1～1°/s EL：0.1～0.5°/s
Op. Temp	-40℃～+60℃
Stor. Temp	-55℃～+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

Optional Feed: L / S; 1.00GHz-18.00GHz;
18.00GHz-40.00GHz

0.6M PORTABLE FAST TRACKING ANTENNA

Frequency	Ka Rx：17.70GHz～21.20GHz
	Tx：29.00GHz～31.00GHz
	Ku Rx：10.70GHz～12.75GHz
	Tx：13.75GHz～14.50GHz
	X Rx：7.25GHz～7.75GHz
	Tx：7.90GHz～8.40GHz
Polarization	Circular
Gain	Ka Rx：≥39.39+20lg（f/20.00）dBi
	Tx：≥42.91+20lg（f/30.00）dBi
	Ku Rx：≥35.36+20lg（f/12.25）dBi
	Tx：≥ 36.67+20lg（f/14.25）dBi
	X Rx：≥30.87+20lg（f/7.50）dBi
	Tx：≥31.59+20lg（f/8.15）dBi
VSWR	≤1.5:1
Movement Range	X Axis：±85° Y Axis：±85°
Motion speed	X Axis：0.1～5°/s Y Axis：0.1～5°/s
Op. Temp.	-40℃～+60℃
Stor. Temp.	-55℃～+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

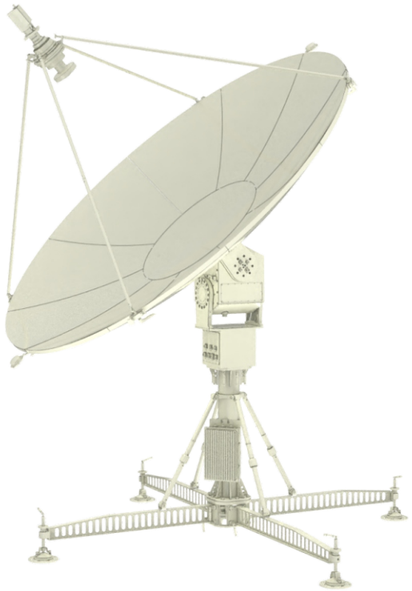
1.2M PORTABLE FAST TRACKING ANTENNA

Frequency	Ka Rx：17.70GHz～21.20GHz
	Tx：29.00GHz～31.00GHz
	Ku Rx：10.70GHz～12.75GHz
	Tx：13.75GHz～14.50GHz
	X Rx：7.25GHz～7.75GHz
	Tx：7.90GHz～8.40GHz
	S Rx：2.20GHz～2.30GHz
	Tx：2.03GHz～2.12GHz
Polarization	Circular
Gain	Ka Rx：≥45.41+20lg (f/20.00) dBi
	Tx：≥48.93+20lg (f/30.00) dBi
	Ku Rx：≥41.15+20lg (f/12.25) dBi
	Tx：≥42.46+20lg (f/14.25) dBi
	X Rx：≥36.89+20lg (f/7.50) dBi
	Tx：≥37.61+20lg (f/8.15) dBi
	S Rx：≥25.82+20lg (f/2.20) dBi
	Tx：≥25.42+20lg (f/2.10) dBi
VSWR	≤1.5:1
Movement Range	X Axis：±85° Y Axis：±85°
Motion Speed	X Axis：0.1～5° /s Y Axis：0.1～5° /s
Op. Temp.	−40℃～+60℃
Stor. Temp.	−55℃～+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

1.8M TRANSPORTABLE FAST TRACKING ANTENNA

Frequency	Ka Rx：17.70GHz~21.20GHz
	Tx：29.00GHz~31.00GHz
	Ku Rx：10.70GHz~12.75GHz
	Tx：13.75GHz~14.50GHz
	X Rx：7.25GHz~7.75GHz
	Tx：7.90GHz~8.4GHz
	S Rx：2.20GHz~2.30GHz
	Tx：2.03GHz~2.12GHZ
Polarization	Circular
Gain	Ka Rx：≥48.93+20lg(f/20.00)dBi
	Tx：≥52.45+20lg(f/30.00)dBi
	Ku Rx：≥44.90+20lg(f/12.25)dBi
	Tx：≥46.22+20lg(f/14.25)dBi
	X Rx：≥40.41+20lg(f/7.50)dBi
	Tx：≥41.13+20lg(f/8.15)dBi
	S Rx：≥29.34+20lg(f/2.20)dBi
	Tx：≥28.94+20lg(f/2.10)dBi
VSWR	≤1.5:1
Movement Range	X Axis：±85° Y Axis：±85°
Motion Speed	X Axis：0.1～5° /s
	Y Axis：0.1～5° /s
Op. Temp.	−40℃~+60℃
Stor. Temp.	−55℃~+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

2.4M TRANSPORTABLE FAST TRACKING ANTENNA



Frequency	Ka Rx：17.70GHz～21.20GHz
	Tx：29.00GHz～31.00GHz
	Ku Rx：10.70GHz～12.75GHz
	Tx：13.75GHz～14.50GHz
	X Rx：7.25GHz～7.75GHz
	Tx：7.90GHz～8.40GHz
	S Rx：2.20GHz～2.30GHz
	Tx：2.03GHz～2.12GHz
Polarization	Circular
Gain	Ka Rx：≥51.43+20lg（f/20.00）dBi
	Tx：≥54.95+20lg（f/30.00）dBi
	Ku Rx：≥47.17+20lg（f/12.25）dBi
	Tx：≥48.48+20lg（f/14.25）dBi
	X Rx：≥42.91+20lg（f/7.50）dBi
	Tx：≥43.63+20lg（f/8.15）dBi
	S Rx：≥31.84+20lg（f/2.20）dBi
	Tx：≥31.44+20lg（f/2.10）dBi
VSWR	≤1.5:1
Movement Range	X Axis：±85° Y Axis：±85°
Motion Speed	X Axis：0.1～5°/s Y Axis：0.1～5°/s
Op. Temp.	−40℃～+60℃
Stor. Temp.	−55℃～+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

3.7M TRANSPORTABLE FAST TRACKING ANTENNA

Frequency	Ka Rx：17.70GHz～21.20GHz
	Tx：29.00GHz～31.00GHz
	Ku Rx：10.70GHz～12.75GHz
	Tx：13.75GHz～14.50GHz
	X Rx：7.25GHz～7.75GHz
	Tx：7.90GHz～8.40GHz
	S Rx：2.20GHz～2.30GHz
	Tx：2.03GHz～2.12GHz
Polarization	Circular
Gain	Ka Rx：≥55.19+20lg（f/20.00）dBi
	Tx：≥58.71+20lg（f/30.00）dBi
	Ku Rx：≥50.93+20lg（f/12.25）dBi
	Tx：≥52.24+20lg（f/14.25）dBi
	X Rx：≥46.67+20lg（f/7.50）dBi
	Tx：≥47.39+20lg（f/8.15）dBi
	S Rx：≥35.60+20lg（f/2.20）dBi
	Tx：≥35.20+20lg（f/2.10）dBi
VSWR	≤1.5:1
Movement Range	X Axis：±85° Y Axis：±85°
Motion Speed	X Axis：0.1～5°/s Y Aixs：0.1～5°/s
Op. Temp.	−40℃～+60℃
Stor. Temp.	−55℃～+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

MARITIME TRURAYA ANTENNA

Frequency	1518.00MHz～1675.00MHz
Polarization	Dual Circular
Gain	≥18.0dBi
VSWR	≤1.5:1
Movement Range	AZ：±180° EL：10° ～90°
Motion Speed	AZ：0.1～3° /s EL：0.1～1° /s
Op. Temp.	−40℃～+60℃
Stor. Temp	−55℃～+70℃
Supply Voltage	90~264VAC，47Hz~63Hz

1.0M DRIVEAWAY ANTEN

Frequency	Rx：1.52GHz～1.56GHz
	Tx：1.63GHz～1.68GHz
Polarization	Dual Circular
Gain	Rx≥22.8+20log（f/1.54）dBi
	Tx≥23.3+20log（f/1.64）dBi
VSWR	≤1.5:1
Movement Range	AZ：±180° EL：5° ～90°
Motion Speed	AZ：0.1～3° /s EL：0.1～3° /s
Op. Temp.	−40℃～+60℃
Stor. Temp	−55℃～+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

0.9M DRIVE AWAY SATCOM ANTENNA

Frequency	Ka Rx：17.70GHz～21.20GHz
	Tx：29.00GHz～31.00GHz
	Ku Rx：10.70GHz～12.75GHz
	Tx：13.75GHz～14.50GHz
Polarization	Circular（Ka）
	Linear（Ku）
Gain	Ka Rx：≥42.50+20lg（f/20.00）dBi
	Tx：≥46.02+20lg（f/30.00）dBi
	Ku Rx：≥38.24+20lg（f/12.25）dBi
	Tx：≥39.55+20lg（f/14.25）dBi
VSWR	≤1.35:1
Movement Range	AZ：±180° EL：10° ～90° Pol：±90°
Motion Speed	AZ：0.1～3° /s
	EL：0.1～3° /s
	Pol：0.1～1° /s
Op. Temp	−40℃～+60℃
Stor. Temp	−55℃～+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

Optional Feed: L / S / C / X / Ka;
1.00GHz～40.00GHz

1.2M DRIVE AWAY SATCOM ANTENNA

Frequency	Ka Rx：17.70GHz～21.20GHz
	Tx：29.00GHz～31.00GHz
	Ku Rx：10.70GHz～12.75GHz
	Tx：13.75GHz～14.50GHz
Polarization	Circular（Ka）
	Linear（Ku）
Gain	Ka Rx：≥45.41+20lg（f/20.00）dBi
	Tx：≥48.93+20lg（f/30.00）dBi
	Ku Rx：≥41.15+20lg（f/12.25）dBi
	Tx：≥42.46+20lg（f/14.25）dBi
VSWR	≤1.35:1
Movement Range	AZ：±180° EL：10°～90° Pol：±90°
Motion Speed	AZ：0.1～3°/s
	EL：0.1～3°/s
	Pol：0.1～1°/s
Op. Temp	−40℃～+60℃
Stor. Temp	−55℃～+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

Optional Feed: L / S / C / X / Ka;
1.00GHz～40.00GHz

1.8M DRIVE AWAY SATCOM ANTENNA

Frequency	Ka Rx：17.70 GHz～21.20GHz
	Tx：29.00 GHz～31.00 GHz
	Ku Rx：10.70 GHz～12.75GHz
	Tx：13.75 GHz～14.50GHz
	X Rx：7.25 GHz～7.75GHz
	Tx：7.90 GHz～8.40GHz
	C Rx：3.40GHz～4.20GHz
	Tx：5.85 GHz～6.725GHz
Polarization	Circular（Ka / X）
	Linear（Ku / C）
VSWR	≤1.5:1
Gain	Ka Rx：≥49.16+20lg（f/20.00）dBi
	Tx：≥52.68+20lg（f/30.00）dBi
	Ku Rx：≥44.90+20lg（f/12.25）dBi
	Tx：≥46.22+20lg（f/14.25）dBi
	X Rx：≥40.41+20lg（f/7.50）dBi
	Tx：≥41.13+20lg（f/8.15）dBi
	C Rx：≥34.50+20lg（f/3.80）dBi
	Tx：≥38.90+20lg（f/6.30）dBi
Movement Range	AZ：±180° EL：10°～90°
	Pol：±90°
Motion Speed	AZ：0.1～3°/s EL：0.1～3°/s
	Plo：0.1～1°/s
Op. Temp.	−40℃～+60℃
Stor. Temp	−55℃～+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

Optional Feed: L / S; 1.00GHz～18.00GHz;
18.00GHz～40.00GHz

2.4M DRIVE AWAY SATCOM ANTENNA

Frequency	Ka Rx：17.70 GHz～21.20GHz
	Tx：29.00 GHz～31.00 GHz
	Ku Rx：10.70 GHz～12.75GHz
	Tx：13.75 GHz～14.50GHz
	X Rx：7.25 GHz～7.75GHz
	Tx：7.90 GHz～8.40GHz
	C Rx：3.40 GHz～4.20GHz
	Tx：5.85 GHz～6.725GHz
Polarization	Circular（Ka / X）
	Linear（Ku / C）
VSWR	≤1.5:1
Gain	Ka Rx：≥51.43+20lg（f/20.00）dBi
	Tx：≥54.95+20lg（f/30.00）dBi
	Ku Rx：≥47.17+20lg（f/12.25）dBi
	Tx：≥48.48+20lg（f/14.25）dBi
	X Rx：≥42.91+20lg（f/7.50）dBi
	Tx：≥43.63+20lg（f/8.15）dBi
	C Rx：≥37.00+20lg（f/3.80）dBi
	Tx：≥41.40+20lg（f/6.30）dBi
Movement Range	AZ：±180° EL：10°～90°
	Pol：±90°
Motion Speed	AZ：0.1～3°/s EL：0.1～1°/s
	Pol：0.1～1°/s
Op. Temp.	−40℃～+60℃
Stor. Temp.	−55℃～+70℃
IP Rating	Ip65
Supply Voltage	90~264VAC，47Hz~63Hz

Optional feed: L / S;1.00GHz～18.00GHz;
18.00GHz～40.00GHz

4.5M DRIVE AWAY SATCOM ANTENNA

Frequency	Rx：10.70 GHz～12.75GHz
	Tx：13.75 GHz～14.50GHz
Polarization	Linear
Gain	Rx：≥52.81+20log（f/12.50）dBi
	Tx：≥53.94+20log（f/14.25）dBi
VSWR	≤1.5:1
Movement Range	AZ：±180° EL：10°～90° Pol：±90°
Motion Speed	AZ：0.05～3°/s EL：0.05～1°/s Pol：0.05～1°/s
Op. Temp.	−40° C～+60° C
Stor. Temp.	−55° C～+70° C
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

Optional feed: L / S / C / X / ka; 1.00 GHz～40.00 Ghz

0.6M FLAT PANEL ON THE MOVE ANTENNA

Frequency	Rx：10.70GHz～12.75GHz Tx：13.75GHz～14.5GHz
Polarization	Linear
Gain	Rx：≥34.89+20lg（f/12.50）dBi Tx：≥36.03+20lg（f/14.25）dBi
VSWR	≤1.5:1
Auto Satellite Acquisition (sec)	Initial Acquisition Time Static:≤80S Dynamic：≤120S Shadowing <10min≤5S
Movement Range	EL：0°～90° AZ：360° Continuous Unlimited Rotation Pol：±90°
Op. Temp.	−40℃~+60℃
Stor. Temp.	−55℃~+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

0.8M LOW PROFILE ON THE MOVE ANTENNA

Frequency	Rx：10.70GHz～12.75GHz Tx：13.75GHz~14.50GHz
Polarization	Linear
Gain	Rx：≥37.39+20lg（f/12.50）dBi Tx：≥38.53+20lg（f/14.25）dBi
VSWR	≤1.5:1
Auto Satellite Acquisition (sec)	Initial Acquisition Time Static:≤80S Dynamic：≤120S Shadowing <10min≤5S
Movement Range	EL：0°～90° AZ：360° Continuous Unlimited Rotation Pol：±90°
Op. Temp.	−40℃~+60℃
Stor. Temp	−55℃~+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

MARITIME TRURAYA ANTENNA

Frequency	1518MHz -1675MHz
Polarization	Linear / Circular
Gain	≥15dBi
VSWR	≤2.0:1
Movement Range	AZ：0° ~360° EL：-10° ~90°
Motion Speed	AZ：0.1~20° /s EL：0.1~20° /s
Op. Temp.	-40℃~+60℃
Stor. Temp	-55℃~+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

2.4M MARITIME ANTENNA

Frequency	Ku Rx：10.70GHz~12.75GHz
	Tx：13.75GHz~14.50GHz
	C Rx：3.40GHz~4.2GHz
	Tx：5.85GHz~6.725GHz
Polarization	Linear
Gain	Ku Rx：47.17+20lg (f/12.25) dBi
	Tx：48.48+20lg (f/14.25) dBi
	C Rx：37.00+20lg (f/3.8) dBi
	Tx：41.40+20lg (f/6.3) dBi
VSWR	≤1.35:1
Movement Range	AZ：0° ~360° Continuous EL：-15° ~125°
Op. Temp.	-40℃~+60℃
Stor. Temp.	-55℃~+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

1.2M MARITIME ANTENNA

Frequency	Rx：17.70GHz~21.20GHz
	Tx：29.00GHz ~31.00GHz
Polarization	Circular
Gain	Rx：≥45.41+20lg (f/20.00) dBi
	Tx：≥48.93+20lg (f/30.00) dBi
VSWR	≤1.35:1
Movement Range	AZ：360° Continuous
	EL：-15° ~125°
	Pol：0° ~180°
	Roll：-30° ~+30°
Motion Speed	AZ：≥80° /s
	EL：≥80° /s
	Pol：≥60° /s
Tracking Angular Acceleration	AZ：≥200° /s²
	EL：≥200° /s²
	Pol：≥100° /s²
Op. Temp.	-40℃~+60℃
Stor. Temp.	-55℃~+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

Optional Feed: L / S / C / X / ku; 1.00GHz~40.00GHz

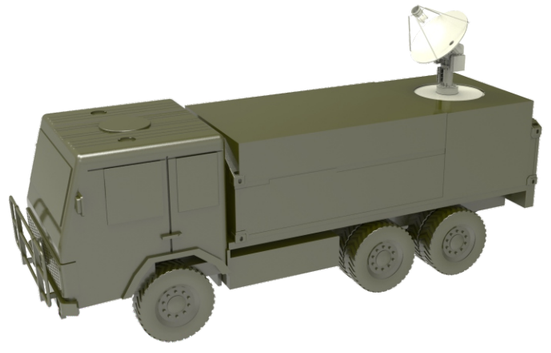
0.45m AIRBORNE SATCOM ANTENNA

Frequency	Ka Rx:17.70GHz~21.20GHz
	Tx:29.00GHz~31.00GHz
	Ku Rx:10.95GHz~12.75GHz
	Tx:13.75GHz~14.50GHz
Polarization	Circular（Ka）
	Linear（Ku）
Gain	Ka Rx:≥36.89+20lg(f/20.00)dBi
	Tx:≥40.41+20lg(f/30.00)dBi
	Ku Rx:≥32.80+20lg(f/12.25)dBi
	Tx:≥33.90+20lg(f/14.25)dBi
VSWR	≤1.5:1
Time (sec): Shadow blockage ≤ 5 s within 10 minutes	
Movement Range	EL：0° ~90°
	AZ：360° Continuous
	Pol：±90°
Op. Temp.	-40℃~+60℃
Stor. Temp.	-55℃~+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz

UAV RECONNAISSANCE AND CONTROL ANTENNA

PORTABLE TELEMETRY ANTENNA

Frequency	2.20GHz-2.40GHz
Polarization	RHCP
Gain	≥17.0dBi
VSWR	≤2.0:1
Tracking Mode	Program Tracking, Monopulse Tracking, Guided Tracking (Optional)
Op. Temp.	-40℃~+60℃
Stor. Temp	-55℃~+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz



1.2M DRIVE AWAY NTENNA

Frequency	2.20GHz～2.40GHz
Polarization	Circular
Gain	≥25.0dBi
VSWR	≤1.8:1
Tracking Mode	Program Tracking, Monopulse Tracking, Guided Tracking (Optional)
Movement Range	Az：0° ～360° EL：0° ～90°
Motion Speed	AZ：0.1～20° /s EL：0.1～20° /s
Op. Temp.	-40℃～+60℃
Stor. Temp.	-55℃～+70℃
IP Rating	Ip65
Supply Voltage	90~264VAC，47Hz~63Hz

1.2M FLYAWAY TRANSRECEIVER ANTENNA

Frequency	Ku Rx：13.75GHz~14.50GHz Tx：10.95GHz~12.75GHZ
Polarization	Linear
Gain	Ku Rx：≥42.46+20lg（f/14.25）dBi Tx：≥41.15+20lg（f/12.25）dBi
VSWR	≤1.35:1
Movement Range	AZ：±180° EL：0°～90° Pol：±90°
Motion Speed	AZ：0.1～3°/s EL：0.1～1°/s
Op. Temp.	−40℃～+60℃
Stor. Temp.	−55℃～+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz
Power Handling Capability	500W
Tracking Mode	Automatic Monopulse Tracking

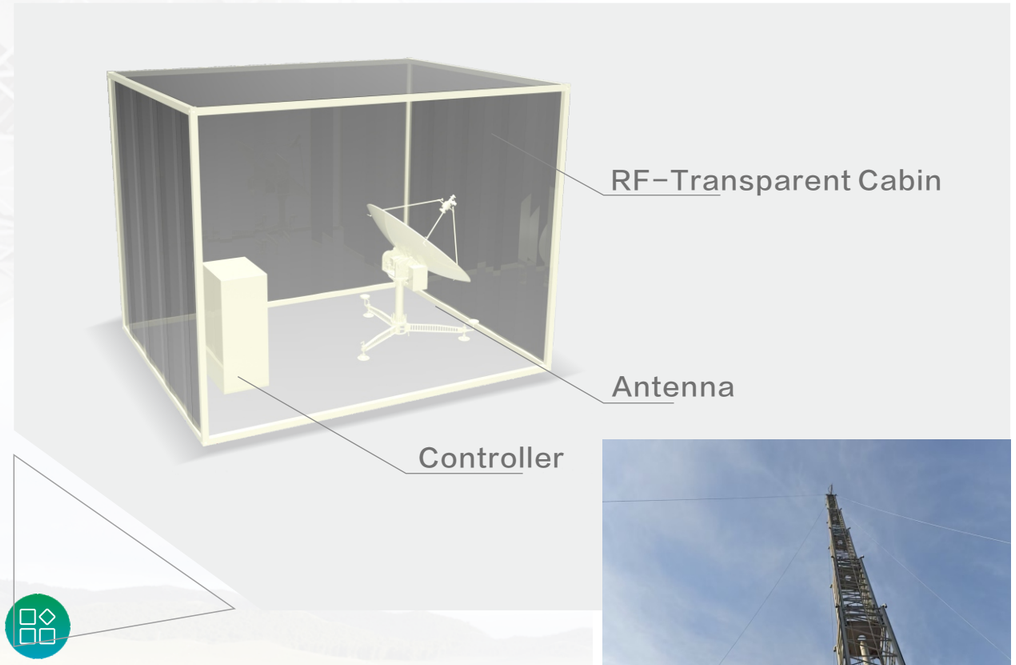
Optional Feed: L / S

1.8M TRANSPORTABLE TRANSCEIVER ANTENNA

Frequency	Ku Rx：13.75GHz~14.50GHz Tx：10.95GHz~12.75GHZ
Polarization	Linear
Gain	Ku Rx：≥45.99+20lg（f/14.25）dBi Tx：≥44.67+20lg（f/12.25）dBi
VSWR	≤1.35:1
Movement Range	AZ：±180° EL：0°～90° Pol：±90°
Motion Speed	AZ：0.1～3°/s EL：0.1～1°/s
Op. Temp.	−40℃～+60℃
Stor. Temp.	−55℃～+70℃
IP Rating	IP65
Supply Voltage	90~264VAC，47Hz~63Hz
Power Handling Capacity	500W
Tracking Mode	Automatic Monopulse Tracking

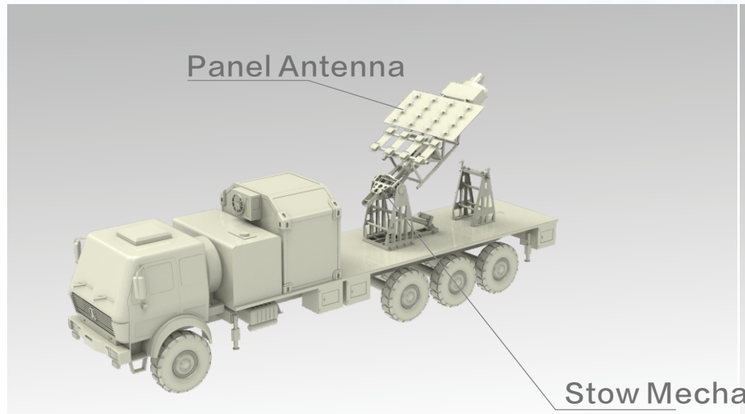
Optional Feed: L / S

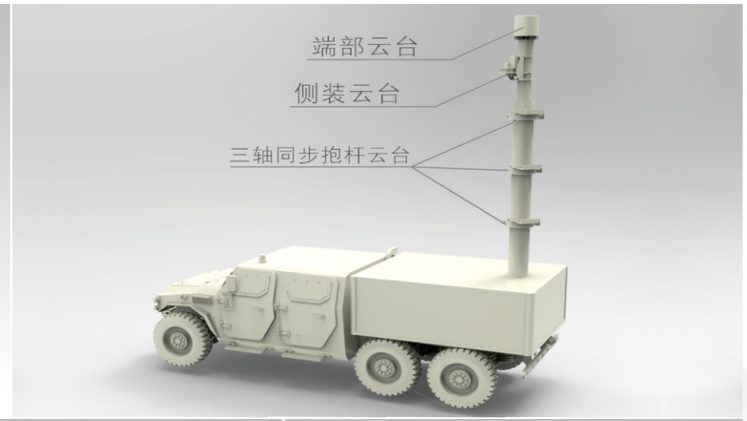
CUSTOMIZED PEDESTAL AND ANTENNA

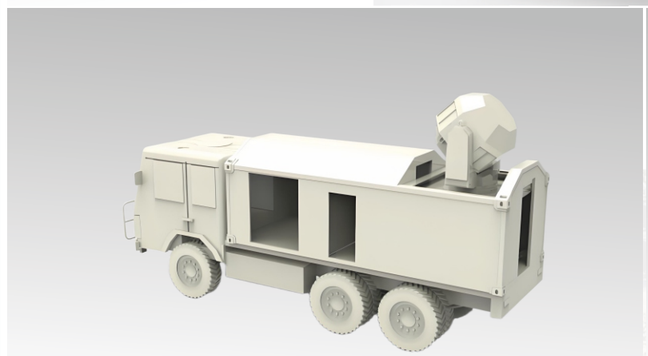


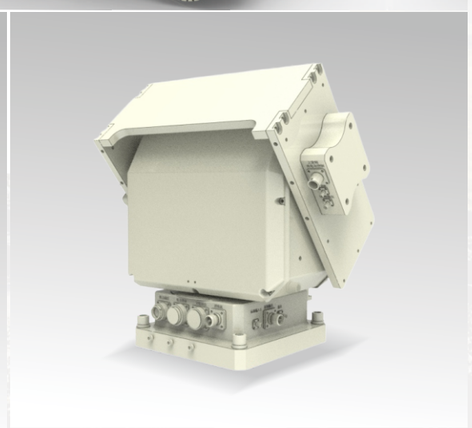
Antenna Pedestal Series

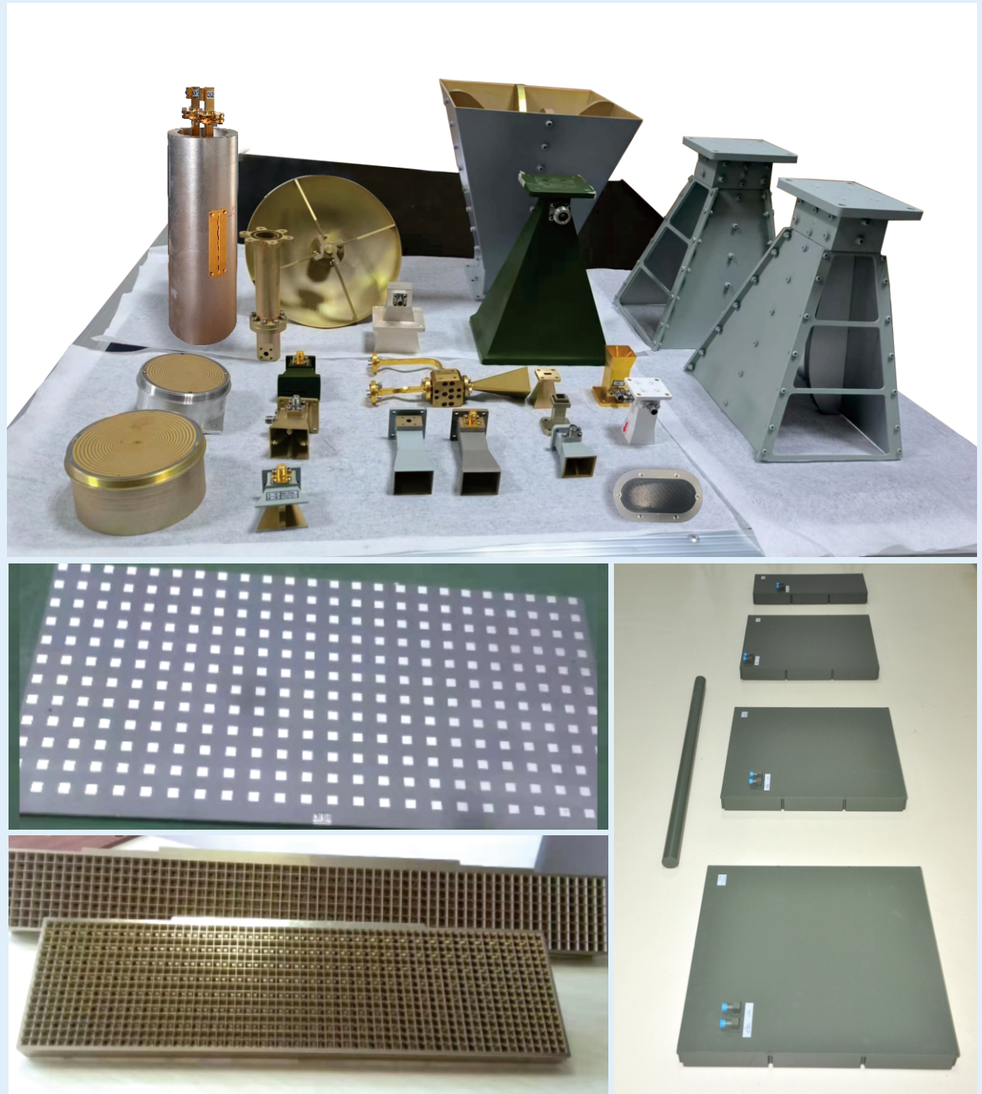
We offer custom-engineered antenna pedestal systems designed to meet clients' exact mechanical interface and performance specifications. Based on our extensive experience with mature antenna platforms, each solution ensures reliability, user convenience, and optimal performance through a professional and application-specific design approach.











PROCUREMENT OF FOREIGN SATELLITE EQUIPMENT AND INSTRUMENTS

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