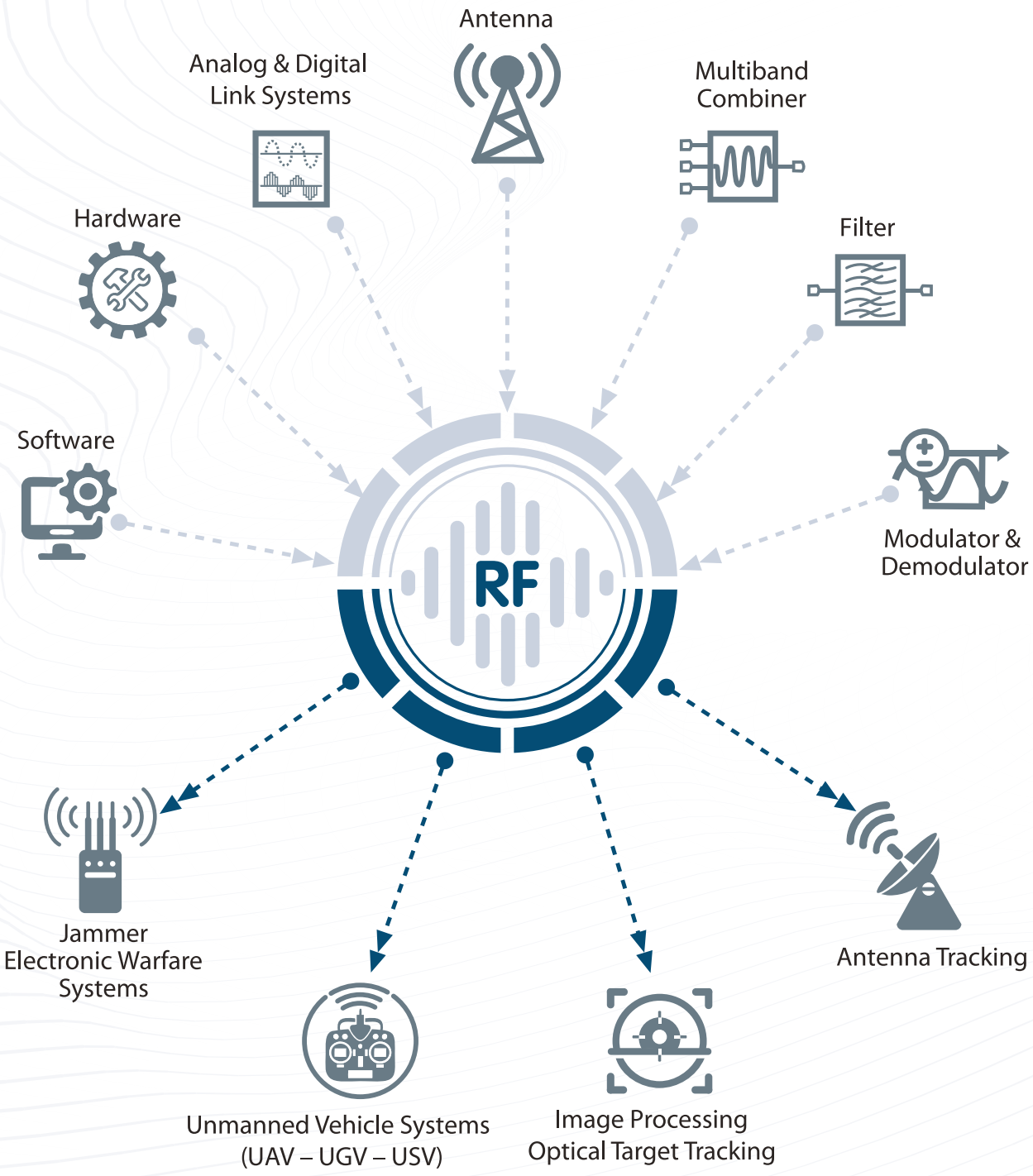
SEKİZ.ALTMIŞ
TECHNOLOGY AND DEFENSE INDUSTRY


Antenna
Analog & Digital
Link Systems
Multiband
Combiner
Hardware
Filter
Software
Modulator &
Demodulator
RF
Jammer
Electronic Warfare
Systems
Antenna Tracking
Unmanned Vehicle Systems
(UAV – UGV – USV)
Image Processing
Optical Target Tracking

About Us

Sekizaltmış is a technology company focused on developing systems that enable interplanetary data transmission, with 11 years of experience in radio frequency (RF) systems. With the aim of Turkey's technological independence, Sekizaltmış, which favors domestic and national production, has reached the capability to produce its final and intermediate products internally since 2020. It also stands out with its uniquely designed RF antennas and filter modules.

MS23
ELECTRONIC WARFARE SYSTEMS

BACKPACK MODEL

ITEMS	SPECIFICATIONS
Jamming Systems	Selectable Two Bands From fifteen Bands (GNSS Or Comunications)
Antenna Type	Removable Omni Antennas
RF Output	100 WATT
Jamming Range	Up to 20 KM (Tested on commerical drone) Note:The jamming range can vary dependingon the antenna's characteristics and environmental factors.
Power (Two Modes)	Internal Battery DC 48 V External Power Supply and Battery Charger (With Hardcase)
Working Time (Battery)	100 Watt RF Ouput Power Working Time 140 Minutes 1,5 Watt RF Ouput Power Working Time 670 Minutes (Less RF Output Power More Working Time)
Wight	25 kg Backpack & 8.5 Kg Accessory
Operation Temperature	-20°C - + 50°C
Dimensions	370*200*560 mm
Installation	Via Tripot
Ip Level	IP63
Cooling	Active Cooling
Control	Internal Control Panel & Tablet with Ethernet
Transport	BackPack
Adjustability and Flexibility	RF Output Power Adjustment (1,5 to 100 watts RF Power Via Tablet) Automatic RF Protection In Case Of Emergency Work With Generator (220V) Easy Transport
Accessory	Antennas Tablet Power Cable Ethernet Cable Power supply & Battery Charger with Hardcase Tripot with Softcase

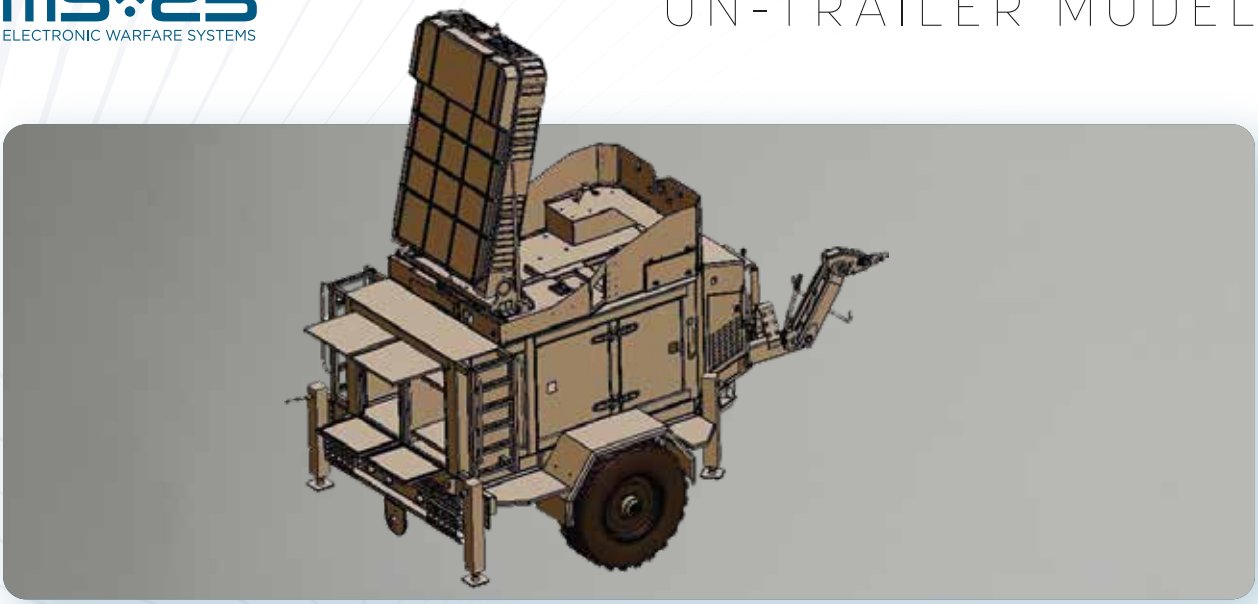
ON-VEHICLE MODEL

MS23
ELECTRONIC WARFARE SYSTEMS

ITEMS	SPECIFICATIONS
Jamming Systems - GNSS (8 Band)	GPS : L1 - L2 - L 5 GLONAS : G1 - G2 BEİDOU : B1-B2-B3 GALİLEO : E1 - E5
Jamming Systems - Communications (7 Band)	3 Band UHF - 2 Band S - 2 Band C
Antenna Type	Patch - Directional Antenna
Antenna Beam Width	Azimuth : 60° Elevation : 60°
Antenna Gain	9-10 dbi
RF Output	1.5 - 100 WATT FOR EACH FREQUANCY
Jamming Range	UP TO 60 KM (Tested On Commerical Drone) Note: The jamming range can vary depending on the antenna's characteristics and environmental factors
Power Supply	AC 220 V / AC 110 V
Weight	~ 610 KG
Operation Temperature	-20°C - + 50°C
Dimensions	1500 * 2100 * 600mm
Installation	FIXED INSTALLATION
Control	VIA WIRE CONTROL UNIT AND TABLET
Adjustability and Flexibility	RF POWER ON / OFF SEPARATE CONTROL FOR EACH UNIT RF OUTPUT POWER ADJUSTMENT (1.5 to 100 WATT) AUTOMATIC RF PROTECTION IN CASE OF EMERGENCY INTEGRATES INTO ANY SYSTEM WITH IP PORT EMERGENCY AREA LEAVE MODE EMERGENCY FAST SETUP MODE SETTING DEFAULT MODE FOR PAN-TİLT FİXABLE ON THE MILITARY/CIVILIAN VEHİCLE - TRAILER - BUILDINGS WORK WITH GENERATOR (5 kW)
Monitoring (At the Control Unit / Tablet)	ON / OFF STATUS (For Each Unit) PAN TILT DEGREE MAGNETİC NORTH WITH COMPASS

MS23
ELECTRONIC WARFARE SYSTEMS

ON-TRAILER MODEL



SPECIFICATIONS

- Maximum Loaded Weight: 2500 kg
- Braked Suspension Axle (2500 kg)
- Mechanical Braking System
- Height Adjustable Drawbar (suitable for civil and military vehicles)
- NATO 76 Eye
- NATO Type Electrical Set (24V DC)
- Military Stop Lamps
- Military Cross Lamp - Convoy
- Military Track Lamp
- Military License Plate Lamp
- Mechanical Support Wheel
- Mechanical Support Legs
- Parking Brake
- 12.5 - 20 Tire and Rim
- Spare Wheel
- Dimensions: 4800*2500*2100 mm
- Speed Limit: 100 km/h

ACCESSORY

- Metal Fuel Can
- Fire Extinguisher
- Triangle Reflector
- Ax - Pickax - Shovel
- Metal Wedges
- Trailer Jack
- Lifting Eye

SINGLE MODEL / YS-UNIT

MS23 ELECTRONIC WARFARE SYSTEMS

ITEMS

Jamming Systems	Selectable From Fifteen Bands (GNSS Or Comunications)
Antenna Type	Changeable and Removable Patch or Omni Antennas
Antenna Beam Width (Patch)	Azimuth: 60° - Elevation: 60°
Antenna Gain (Patch)	9-10 dbi
RF Output	100 Watt
Jamming Range	PATCH: Up to 60 KM (tested on commerical drone) OMNI: Up to 20 KM (tested on commerical drone) Note :The jamming range can vary depending on the antenna's characteristics and environmental factors
Power	Internal Power Supply AC 220V & Optional External Battery DC 48 V
Weight	10 kg (Transport hardcase wieght 30 kg)
Operation Temperature	-20°C - + 50°C
Dimensions	290*220*280 mm
Installation	Via Tripot (Manuel Head Pan Tilt)
IP Level	IP63
Cooling	Active Cooling
Control	On/Off Button & Optional Tablet
Transport	Via Hardcase
Adjustability and Flexibility	RF Output Power Adjustment (1,5 to 100 watts RF Power Via Optional Tablet) Automatic RF Protection In Case Of Emergency Work With Generator(220V) Easy Transport
Accessory	Antenna Tripot Power Cable Ethernet Cable Optinal Battery Optinal Battery Charger and Battery Level Checker Optinal Tablet Hardcase

MS23
ELECTRONIC WARFARE SYSTEMS

EW - RADAR OPTIC CONTROL STATION

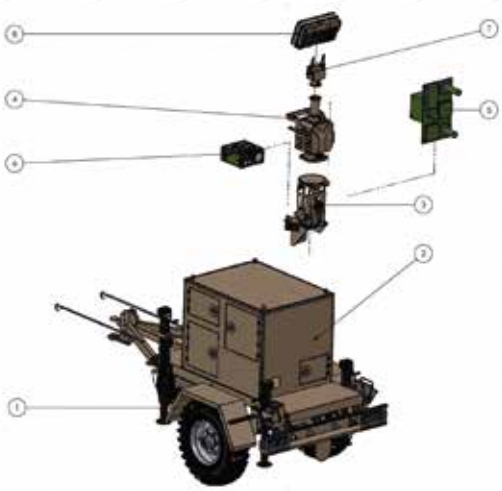
SPECIFICATIONS	
Operating Frequency	Ku Band
System Architecture	3B and Pulse-Compression with Pulse-Doppler
Scan Speed	4,8,16,30 rpm (selectable)
Detection Ranges (Km)	
Drone (DJI Phantom-4)	up to 4,4 Km
Drone (Talon)	up to 5,2 Km
Paramotor	up to 9,3 Km
Human	up to 9,3 Km
Instrumental Range	9,3 Km
Highest Tracking Target Speed	240 km/h
Azimuth Coverage	360° continuous, 0-360° adjustable sectors
Minimum Range	<100 m
Maximum Number of Tracks While Scan	500
Single Target Tracking	Target analysis Mode (High Accuracy Micro-Doppler Analysis)
Built In Test	Temperature, Voltage, Current, Communication, RF Loop Test
Beam Width	Azimuth: 2°, Elevation: 40°
Range Resolution	3 m
Range Accuracy	<0,5m (ms)
Elevation Positioning Range	±25°
Operating Temperature	-32°C / +60°C
Storage Temperature	-40°C / +60°C
Environmental Conditions Compatibility	MIL-STD-810G
Electromagnetic Compatibility	MIL-STD-461
Interface	10/100 Ethernet

Detector	Detector Type	HgCdTe cooled infrared detector	
	Resolution	640×512	
	Pixel Pitch	15μm	
	Aperture (F)	F4	
	Frame Rate	1-50 Hz	
	Spectral Band	3.7~4.8μm	
	NETD	≤25mK @25 C	
	Cooling Time	≤8min	
Lens	Focal Length	33-660mm continuous zoom	
	Aperture (F)	F4	
	FOV	16.55°×13.27°~0.83°×0.67°	
Image	Digital Zoom	1.0~4.0× continuous zoom (step size: 0.1)	
	Image Processing	Non-uniformity correction Digital filtering noise reduction Digital detail enhancement	
	Mirror Image	Horizontal/Vertical/Diagonal mirror image	
Interface	Video Output	Analog Video	PAL
		Digital Video	SDI
	Serial Communication Interface	RS422	
Environment Adaptability	Operating Temperature	-32 C~+55 C	
	Storage Temperature	-40 C~+70 C	

Mobile Radar Optics can be used as a portable system or integrated into a vehicle mounted platform.

Sensor	Type	1/1.8" Sony Progressive Scan CMOS
	Effective Pixel	2.13 M Pixel
Lens	Focal Length	15 ~ 850 mm
	Zoom	57X
	F-No	2.8 ~ 6.5
	HFOV	29.1° x 0.5° ± %5
	VFOV	16.7° x 0.2° ± %5
	DFOV	33.2° x 0.6° ± %5
	Close Focus Distance	1m ~ 10m (Wide ~ Narrow)
	Zoom Speed	~8 Second
Video Network	Compression	H.265/H.264/H.264H/MJPEG
	Resolution	HD-SDI Main Stream: 1080P and 720P @25/30 fps
	Video Bit Rate	32Kbps ~ 16 Mbps
	Network Protocol	ONVIF, HTTP, RTSP, RTP, TCP, UDP
Min. Enlightenment	Colourful: 0.05Lux @ (F2.8, AGC ON)	
Noise Reduction	2D / 3D	
Shutter Speed	1/1 ~ 1/30000 Sn	
Image Properties	Saturation, Brightness, Contrast, Sharpness, Gamma etc.	
WDR / BLC / HLC	Yes	
S/N Ratio	> 55 dB (AGC Off, Weight ON)	
AGC / Defog	Yes	
Day/Night	Oto (ICR)/ Manual (Color, Black & White)	
E-zoom	16X	
Focus	Auto / Manual	

- Map-Weapon Information
- Target Tracking Interface
- Mission Computer
- Weapon Control



GURBUZ

NE-UAV
UNMANNED AERIAL VEHICLES

Wing Span
470 cm

Fuselage Length
200 cm

Power
Electric

Take-Off Weight
11 kg

Altitude
300-1000 m

Max Altitude
3000 m

Cruise Speed
50km/h

Endurance
4.5 h

Integrated Payload
EO camera (1.5 kg)

Additional Payload
1 kg

NE-UAV
UNMANNED AERIAL VEHICLES

NE-3.14 RASAT

Wing Span
275 cm

Fuselage Length
160 cm

Power
Electric

Take-Off Weight
16.5 kg

Range
90 km

Altitude
300-1000 m

Max Altitude
3000 m

Cruise Speed
90km/h

Max speed
130km/h

Endurance
70 min

Payload (Gimbal Camera)

- *2 Axis Stabilization*
  - *Azimuth 360 °*
  - *Elevator ∓ 90 °*
- *EO Camera*
  - *Resolution 1920*1080*
  - *Optic Zoom 30x*
- *Thermal Infrared Camera LWIR*
  - *IR Resulation 640*512*
  - *Optic Zoom 3x*
- *Laser Finder LRF*
  - *Range 10-3000 m (2.3mx2.m)*
  - *∓ 1 m Accurary*
- *Automatic Target Tracking*

NE-3.14 KAMIKAZE

NE-UAV
UNMANNED AERIAL VEHICLES

Wing Span
275 cm

Fuselage Length
160 cm

Power
Electric

Take-Off Weight
16.5 kg

Range
90 km

Altitude
300-700 m

Max Altitude
3000 m

Cruise Speed
90km/h

Max speed
130km/h

Endurance
80 min

Payload (Explosive)
• *5 kg weight*
• *2 Type of Warhead*
Anti Personal
Anti Tank

NE-UAV
UNMANNED AERIAL VEHICLES

07.10-P

Frame Weight
5 kg

Empty Weight
(No Payload No Battery)
12.5 kg

Recommended Payload
12 kg

Recommended Take-off
35 kg

Maximum Take-off Weight
(Including Battery)
40 kg

Opened Size
1070x1070x600 mm

Folded Size
630x630x600 mm

Payload

3 Mortar 80mm
Release Mechanism: 3

Battery

BatteryType	Li-ion or LiPo
Voltage	14S (56v)
Capacity	40Ah
Max Discharge Current	450A

Speed

Cruising Speed (With Payload)	60 km/h

Range

Distance	20+km
Data Transmission Distance	20+km
Control Link	20+km
Video Transmission Distance	20+km
Suggested Flight Altitude	500m
Max Flight Altitude	2000m

Flight Time

Recommended	20 min
Max Flight Time (No Payload)	22 min
Max Flight Time (Full Payload)	50 min

Working Temperature

-20 ~ +50 C

Max Wind Resistance

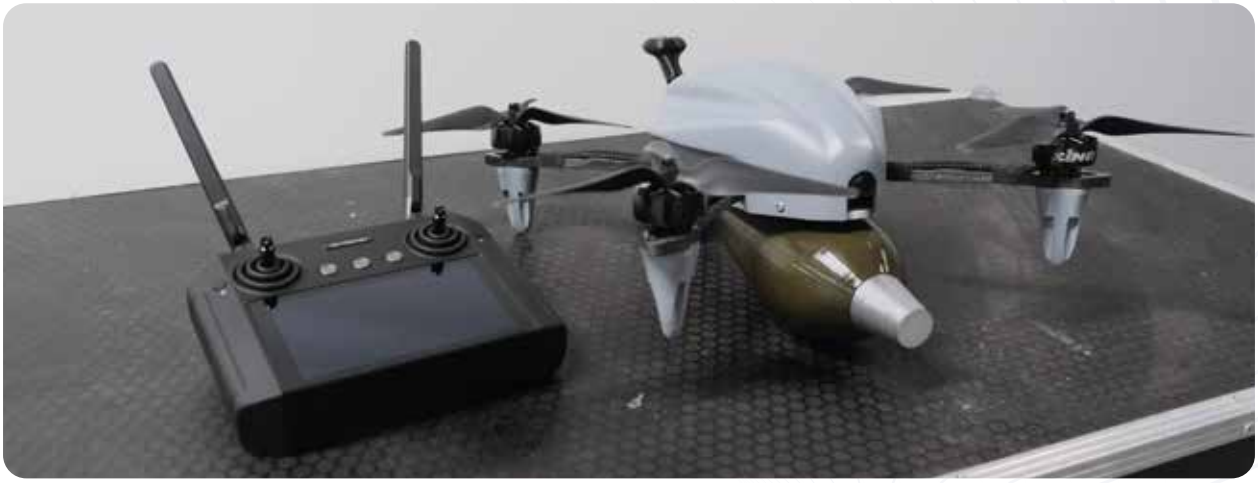
Level 7

Gimbal

Axis: 3 -Zoom: 30X Hybrid 10X Optical Zoom
Quality: 2K 4MP QHD

07.10-F

NE-UAV
UNMANNED AERIAL VEHICLES



Frame Weight
450 g

Recommended Payload
1800 g

Recommended Take-off Weight
4000 g

Maximum Takeoff Weight
(Including Battery)
4500g

Opened Size
270x270x80

Folded Size
340x110x80

Frame Weight
450 g

Battery

BatteryType	Li-ion or LiPo
Voltage	6S (24v)

Range

Distance	15+ km
Data Transmission Distance	15+ km
Control Link	15+ km
Video Transmission Distance	10+ km
Suggested Flight Altitude	300m
Max Flight Altitude	1000m

Flight Time

Recommended	12 min
Max Flight Time (No Payload)	20 min
Max Flight Time (Full Payload)	15 min

Payload

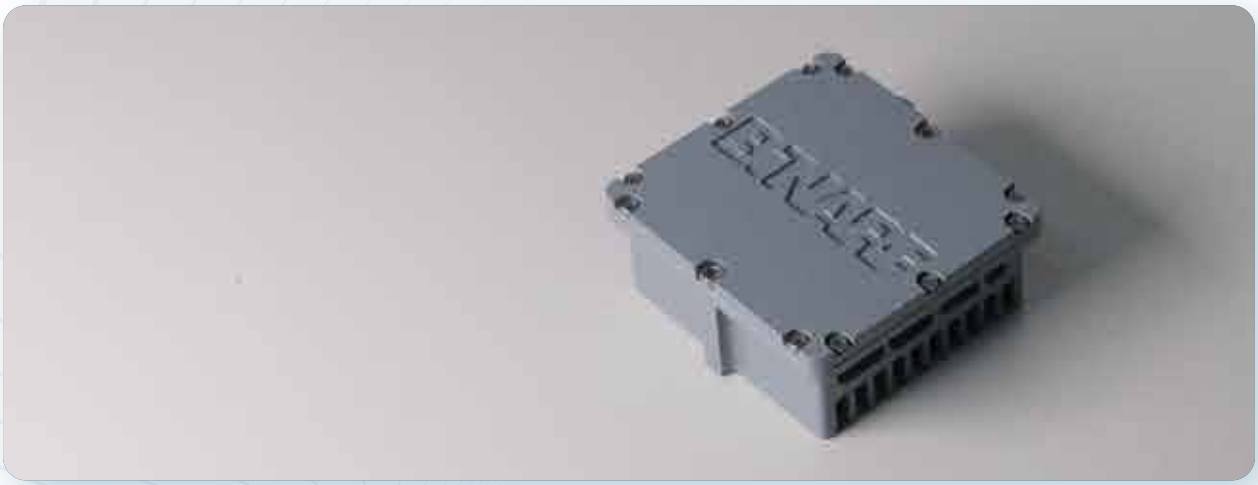
1 Mortar 60mm OR RPG7 WARHEAD
Release Mechanism Can be add
Kamikaze

Working Temperature

-10 ~ +55 C
Fixed FPV Camera

BINARF
COMMUNICATION SYSTEMS

TELEMETRY



Frequency Range
150-960MHz

Weight
120g

RF Power
Configurable from 10mW up to 5W

DC Power
14V – 26V

Range
Up to 100km

Data Ports
JST GH/USB Type-C

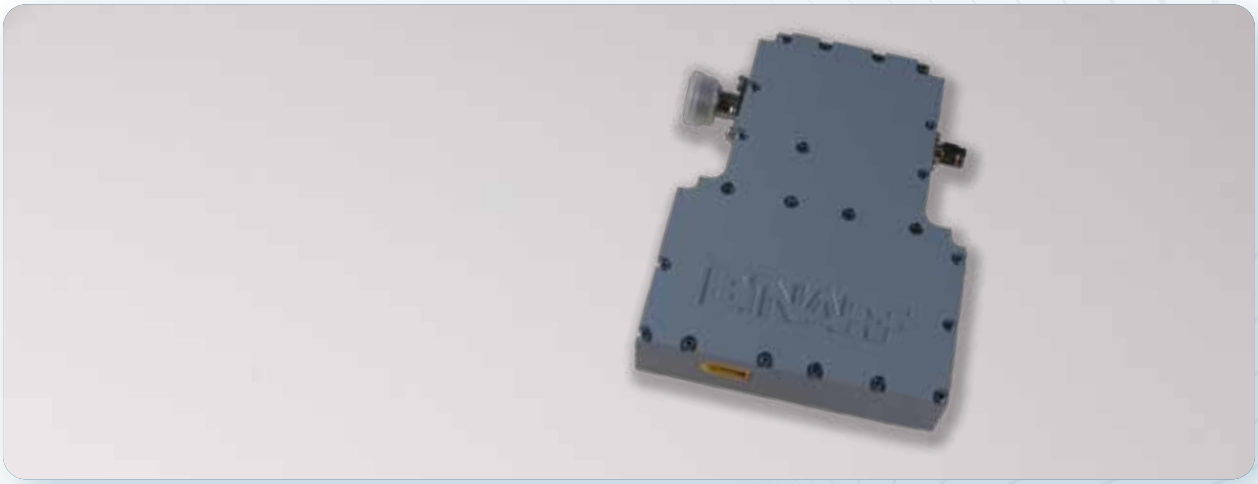
Bit-rate
Up to 250kbps

Antenna Type
Omni / Patch

Encryption
AES-128

AMPLIFER

BINARF
COMMUNICATION SYSTEMS



	70W Amplifier	100W Amplifier
Frequency	4900-5900 MHz	400-2700 MHz
Input Power	0dB	0dB
Output Power	70W min. 80W Typ.	90W min. 100W Typ.
Nominal Gain	49dB	50dB
Gain Flatness	+-1dB	+-1dB
DC Supply Voltage	48V	48V
DC Current	4A Typ.	5A Typ.
Drain Efficiency	50%	55%
Operating Case Temp.	-35°C to +80°C	-35°C to +80°C
Storage Temp.	-65°C to +150°C	-65°C to +150°C
RF Input Connector	SMA Male	SMA Male
RF Output Connector	N-Type Female	N-Type Female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NE-UAV
UNMANNED AERIAL VEHICLES


MS23
ELECTRONIC WARFARE SYSTEMS


BİNARF
COMMUNICATION SYSTEMS