



DYN | MICRO DATALINK

Tactical network digital communications


up to
120 km

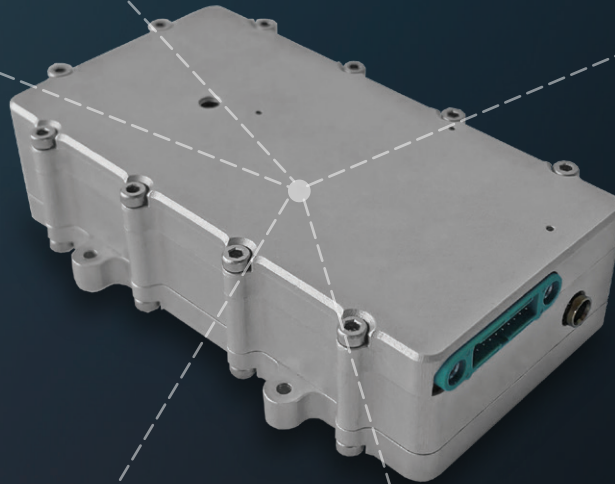
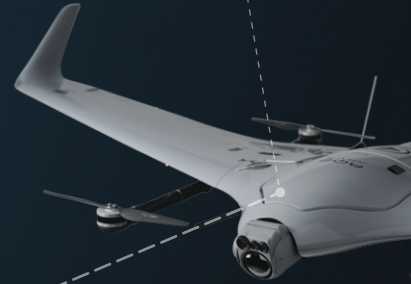

up to
10 Mbps


ULTRA HD
4K
video
data/chat


AES-256


97 g


boot in
3 s



↳ UP TO **120 km** RANGE WITH DIRECTIONAL ANTENNA

↳ **4K** VIDEO + **TELEMETRY** SUPPORT

↳ **SMALLEST & LIGHTEST** DATALINK IN ITS CLASS

↳ ENCRYPTED **CHAT** VIA MESH **NETWORK** (P2P or GROUP)

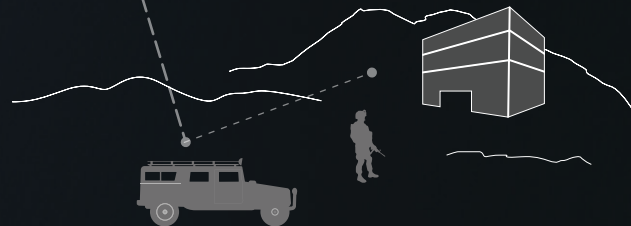
↳ **FASTEST BOOT** TIME ON THE MARKET (BELOW 3 s)

↳ **LOW POWER CONSUMPTION**

↳ **LOWEST LATENCY** ON THE MARKET (BELOW 10ms)

↳ **INTERFERENCE RESISTANCE**

(THROUGH PROPRIETARY PROTOCOL & PACKET PRIORITIZATION CAPABILITY)

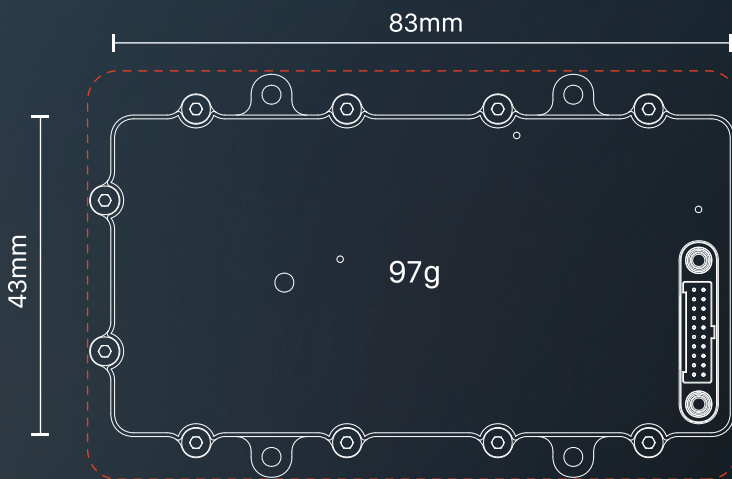


C-ASTRAL
AEROSPACE

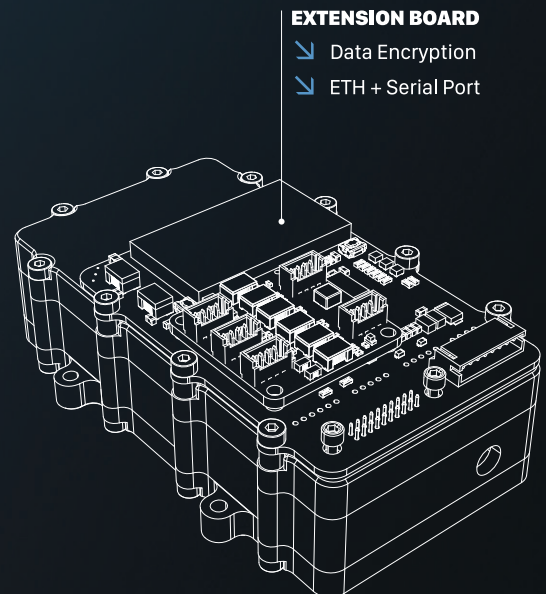
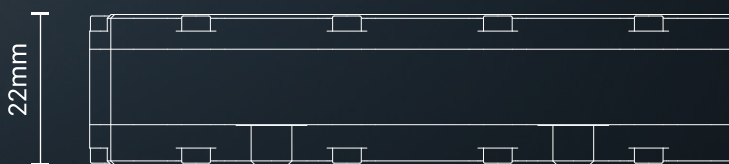
DYN MICRO DATALINK SPECIFICATIONS

Frequency range	1160 to 1400 MHz (L-band version) Model: DYN-23-L 2200 to 2500 MHz (S-band version) Model: DYN-23-S	Operating modes	Point to point Point to multipoint Mesh Network
Channel spacing	50 kHz	Max. ETH ratio	100 Mbps
Bandwidth	10 MHz at 10 Mbps 2 MHz at 2 Mbps	Max. link ratio	10 Mbps
Frequency tuning	FPLL	Radio range	125 dB (120 km with 10 dBi directional antennas and 1 dB cable loss)
Wireless transmission	BPSK 0-180 Scrambling (1+X*12+X*17).ARQ CSMA	System capability	Optical LOS, NLOS
		Boot time	3 sec
		OS	None
Input voltage	9 to 30 V DC	Protocol	Proprietary CAS
Consumption	5 - 8 W @ 10Mbps full duty cycle	Encryption	AES-256 SHA-256, RSA-2048
Transmitter		IP support	Multicast, Broadcast, TCP/IP, UDP, RTSP
Output power	3 W (+35 dBm) max.	Dimensions	83 × 43 × 22 mm
Latency	Under 10 ms @ 1500 Byte frame length	Mass	97 g
Harmonic suppression	More than 50 dBc	Operating temperature range	-40 °C to + 65 °C
Frequency stability	0.5 PPM	Interfaces	RF
Modulation	BPSK 0/180		ETH (100 Mbps TRUNK)
Receiver			Serial RS-232 SLIP (serial patch up to 5 Mbps)
Type	0 IF BPSK Costas loop demodulator		COMO serial console (9600 bps) via 10.X.X.X port 7900
Sensitivity	-92 dBm @ 10 Mbps		
	-94 dBm @ 2 Mbps		

SCALE 1:1



SMALLER THAN A CREDIT CARD



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