
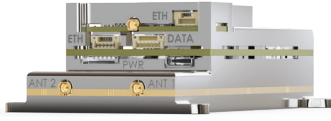



ADVANCED DATALINK – HIGH DATA RATE

Rangsons advanced datalink solution is designed for reliable communication in aerial operations, even in tough environments. It supports missions up to 250 km and offers data rates up to 80 Mbps. Our SDR with INTERFACE AVOIDANCE and MESH NETWORK TECHNOLOGIES, it ensures smooth control of multiple platforms, adaptive video encoding and integration of various data sources, providing excellent connectivity and reliability for critical airborne tasks.

	Air M2	Air M3	Air HP
Airborne Units			
Transceiver Type	Low-Power OEM	High-Power OEM	Mil-Std High Power
Applications	Mini UAS, Multirotor	UAS, VTOL, Large Drones	Tactical UAS, ISR Helicopters
Frequency Range	UHF / L-Band / S-Band / C-Band / Optional: Dual Band		
Data Rates	Up to 20MBps	Adaptive, up to 80 Mbps	
Power	Up to 1W	Adaptive, up to 10W	
Modulations	BPSK/QPSK/QAM16/QAM64	Adaptive BPSK/QPSK/QAM16/QAM64	
Duplex Technology	TDMA		
Antenna Techniques	SIMO (MRC Diversity)	SIMO/MIMO	
Bandwidth	2/4/8MHZ	2/4/8/16MHZ	
Immunity	Interference Avoidance	LPI/LPD (Cognitive Radio)	
Security	AES128/AES256		
Interfaces	Ethernet, RS232	Ethernet*2, RS232/TTL, Video (SD, HD)	Ethernet*2, RS232/TTL, Video (SD, HD)
Weight	From 130gm	From 220gm	From 220gm

Performance

- Long-range performance, with up to 250km LOS
- Single and multi-platform operations
- Handles data rates up to 80Mbps
- Built for reliability in varying conditions
- Proven in real-world operational scenarios

Application

- Unmanned aerial systems
- Mission-critical airborne operations
- Tailored for multi-domain, scalable applications, offering flexible deployment options