

# DRONEIT DATALINK

2400~2483Mhz / 5500~5825Mhz / 5030~5150Mhz

## Features and Benefits

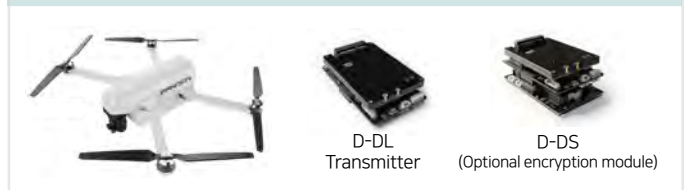
- Full-HD Video data transmission
- Compact size (80x50x25mm)
- Video transmission up to 20km (Optimal 5km)
- Extend communication range with 1:1 1:N N:1 N:N mesh networks
- Support 2.4Ghz/5.8Ghz/5030~5130Mhz frequency band (up to 10W with an optional external amplifier)
- FC connector
- 2EA USA-A ports
- Serial ports
- Transfer customized dataset
- Support LTE networks (optional)
- Certification : CE/FCC



## Application Case

- Integrated Management System for Multiple UAVs (via repeater, vehicle or drone)
- Simultaneous control over 20 UAV units at once (N:1)
- Managing ship-based Helicopter UAVs for long-distance surveillance from warships
- Controls VTOL fixed wing UAVs over 20km

### Available for compact size UAVs

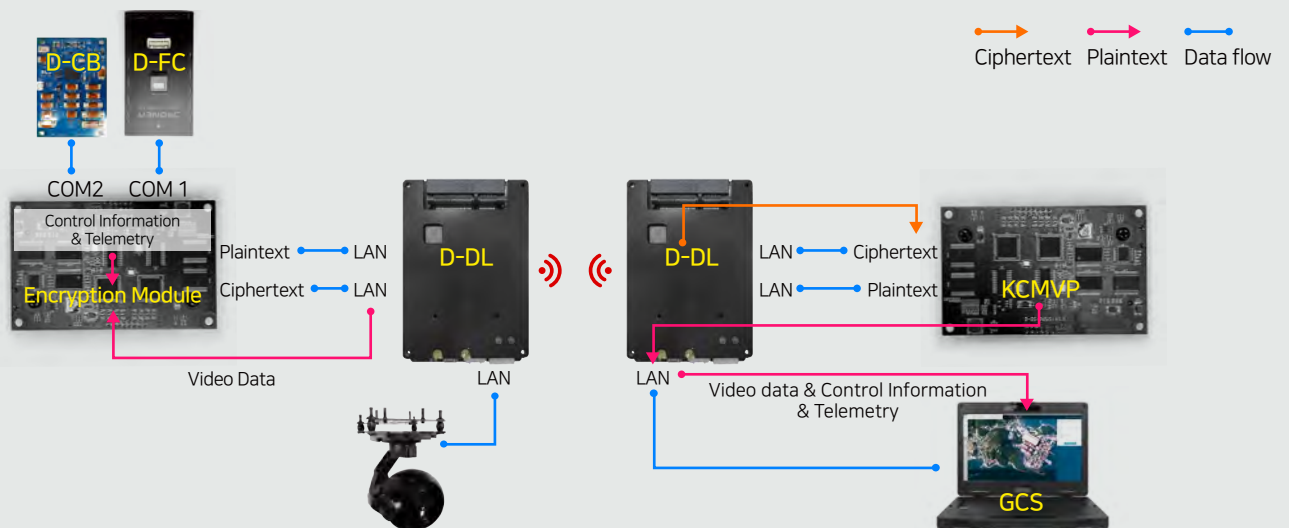


### Available for Ground Stations

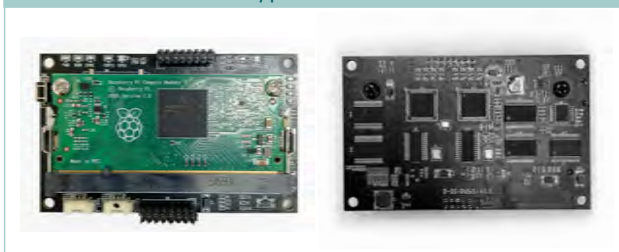


# ENCRYPTION MODULE

Cortex-A53 MPU / Quantum Random Number Generator / Encryption rate over 50Mbps



## Encryption Module



- CPU : ARM Cortex-A53 1.2GHz 64bit Quad-core(BCM2837)
- RAM : LPDDR2 RAM 1Gbyte
- Storage : eMMC 4Gbyte Flash
- 10/100Mbps Ethernet : 2 Port
- Serial : 3 Port or more
- Power: DC5V, 2A NIS-verified encryption module (KCMVP/CM-178-2026.1)

# DRONEIT DATA LINK Data Transmission System

- MIMO 2x2 Antenna Outdoor Type
- 10/100/1000 Base-T 1Port Ethernet
- Operating Range : 5 ~ 20Km at LOS
- Up to 300Mbps Data Rate / Optimal 20Mbps



Wireless	Standards	IEEE802.11a/n/h/s for Wireless LAN IEEE802.11i for Wireless Security IEEE802.3u for 10/100/1000T(X) Full Duplex
	Operation Mode	Access Point, Bridge
	Wireless Standard	IEEE802.11a/b/g, 802.11n
	Frequency Range	2400~2483Mhz, 5500~5825Mhz, 5030~5150Mhz
	Rate	Optimal 20Mbps, Max 300Mbps
	Modulation	11n (HT20/HT40) : MCS0 ~ MCS15 (OFDM)
	Sensitivity	5.8 GHz, OFDM 6Mbps : -90dBm, 54Mbps : -73dBm
	Bandwidth	Ability to configure 20 and 40MHz channel bandwidth, Transmit Power Control(TPC)
Device Managements	Administrator ID/PW, Station & AP Associated Information System Information, Telnet/SSH Server Support Web-based Configuration, Upgrade through HTTP/TFTP Event Log (WEB Interface), Factory Default	

Network	Interface	2 x Serial Ports, 1 x micro USB Port(USB to Serial) 2 x USB2.0 Ports, 1 x LTE PCI-E Slot, 1 x USIM Slot 1 x Ethernet 10/100/1000BASE-T(RJ-45) Auto negotiation speed
	LAN / WAN	IP, Subnet, Gateway
	DHCP	Server/Client
	Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, ARP, DNS
	Security	SSID Protection, 64bit-128bit WEP Encryption, 802.11i, AES and/or TKIP, WPA2.0(with Radius Server or Pre- Shared Key), WPA, 802.1x Authentication, IP/MAC Filtering(Allow, Deny), HTTPS(SSL) Encryption, Password Protection
	Operating Range	5 ~ 20Km at LOS

General	Operating Temperature	-20°C ~ +70°C
	Humidity	5% to 95% (non-condensing)
	Power	USB-C(1.5A) or DC Jack 5V
	Dimension	105 x 100 x 18 mm (Basic), 80 x 50 x 25 mm (Mini) / Width x Length x Height
	Weight	95g(Basic), 58g(Mini) / PCB Only

Section		D-DataLink	Section		D-DataLink
Antenna (Receiver)	Frequency Range	5150-5850Ghz	Antenna (Sender)	Frequency Range	5150-5850Ghz
	Beamwidth	Vertical 7° Horizontal 360°		Type	Omni Direction
	Gain	12 dBi		Gain	6dBi
	Impedance	50 Ω		Impedance	50 Ω
	Dimension	Φ14 x 490 mm		Dimension	Φ15 x 150 mm
	Weight	85g (1EA)		Weight	22g (1EA)

(Recommended Antenna, 5.8Ghz Case)



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