

AV's Digital Data Link (DDL) is a small, lightweight, broadband digital network module enabling enhanced command and control of small UAS. DDL is IP-based, allowing maximum flexibility and interoperability between small airborne and ground systems with limited power and bandwidth to maximize the number of systems that can operate in a given area. DDL is compatible with AV's network connectivity solutions and antennas, providing command and control ranges that extend from the wearable, short-range pDDL (5 km) to the Long Range Tracking Antenna (60 km).

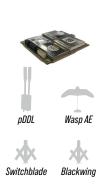
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Maximum Flexibility and Interoperability

SPECIFICATIONS (MODULES)

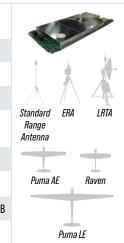
MINI DDL MODULE

SIZE	1.95 in x 2.35 in x 0.35 in (49 mm x 59 mm x 8.9 mm)	
WEIGHT	0.99 oz (28 g)	
TX POWER	2 W	
RX SENSITIVITY	-93 dBm	
POWER Consumption	9 W at 1 W TX	
OPERATING VOLTAGE	5.5-16 V	
DATA RATE	4.5 Mbps	
INTERFACES	LVDS/USB	
OPERATING BANDS	M1/2/5 or M3/4/6	



BASE DDL MODULE

SIZE	2.05 in x 5 in x 0.375 in (52 mm x 127 mm x 9.5 mm)	
WEIGHT	2.1 oz (60 g)	
TX POWER	1W	
RX SENSITIVITY	-93 dBm	
POWER CONSUMPTION	10 W at 1 W TX	Standari Range Antenna
OPERATING VOLTAGE	5.5-9 V	
DATA RATE	4.5 Mbps	Puma
INTERFACES	Ethernet/RS-232/RS 485/USB	
OPERATING BANDS	M1/2/5 or M3/4/6	



SPECIFICATIONS (ANTENNAS)







Height: 4.25-7 ft (1.3-2.2 m)

Base Diameter: 3.75-8.2 ft



Long Range Tracking Antenna

DEPLOYED ANTENNA SIZE & WEIGHT

4 in x 2.25 in x 0.75 in [10.2 cm x 5.7 cm x 1.9 cm] Height: 6.5 ft (2 m) Base Diameter: 3 ft (0.9 m)

M1/2/5 height: 5.8-9.4 ft (1.8-2.9 m) M3/4/6 height: 5.25-8.8 ft (1.6-2.7 m) Base Diameter: 5.3 ft (1.6 m) M1/2/5 weight: 304 lb (138 kg)

-98 dBm @ 2 Mbps -93 dBm @ 6 Mbps 275 W (nom., heater off) 460 W (max., heater on) 90-250 V ac, 47-65 Hz 4.5 Mbps MPEG2 or H264 SD Ethernet/RS-232/RS-485 AES-128/AES-256

(1.1-2.5 m) M1/2/5 and M3/4/6 weight: Weight: 10.8 lb (4.9 kg) Weight: 7.1 oz (201 g) 3 lb (1.3 kg) Note: excludes the GCS RF Head, M3/4/6 weight: 300 lb (136 kg) hub and system battery M1/2/5: 4.4 in x 2.8 in x 10.1 in 12.25 in x 12.25 in x 5 in [11.2 cm x 7.1 cm x 25.7 cm] (31.1 cm x 31.1 cm x 12.7 cm) M3/4/6: 4.4 in x 2 in x 10.1 in **ANTENNA ARRAY UNIT** [11.2 cm x 5.1 cm x 25.7 cm] Weight: 3.7 lb (1.7 kg) SIZE & WEIGHT Note: Used in conjunction with M1/2/5 and M3/4/6 weight: the Standard Range Antenna 1.6 lb (732 g) -98 dBm @ 2 Mbps -98 dBm @ 2 Mbps -98 dBm @ 2 Mbps **RX SENSITIVITY** -93 dBm @ 6 Mbps -93 dBm @ 6 Mbps -93 dBm @ 6 Mbps 20 W (pass through, not POWER CONSUMPTION 20 W additional) **OPERATING VOLTAGE** 5.5-16 V 5.5-16 V 5.5-16 V **DATA RATE** 4.5 Mbps 4.5 Mbps 4.5 Mbps **SUPPORTED** MPEG2 or H264 SD MPEG2 or H264 SD MPEG2 or H264 SD COMPRESSION **INTERFACES** Ethernet/RS-232/RS-485 Ethernet/RS-232/RS-485 **ENCRYPTION** AES-128/AES-256 AES-128/AES-256 AES-128/AES-256 **OPERATING BANDS** M1/2/5 or M3/4/6 M1/2/5 or M3/4/6 M1/2/5 or M3/4/6 M1/2/5 or M3/4/6

