



# EMDLS

ENHANCED MICRO  
DATA LINK  
SYSTEM

## ENHANCED MICRO DATA LINK SYSTEM

The Enhanced Micro Data Link System (EMDLS) is an advanced single unit digital data link system specifically designed for micro and small size platforms which are sensitive to Size, Weight and Power (SWaP). As effective solution for most requirements known today, this advanced system uses open architecture and enables full duplex wideband, digital link, error correction techniques and high-rate communication in the Uplink (UPL) and Downlink (DNL) channels. The M2DLS can downlink real-time video images, LAN, serial data and information from most available sensors. It combines proven technologies and standards with advanced algorithms, to provide reliability and high performance, for the harshest conditions. This makes it ideal for applications such as usage in drones and loitering munitions.

### APPLICATIONS

- Mini UAS
- Drone UAS
- Loitering Munition
- UGV

### FEATURES

- Light weight
- Point to multi-point application
- Micro size single unit solution
- Low power consumption
- Variable data rates
- Beyond line of sight capabilities
- Embedded encryption



## Who We Are

CP Technologies designs, fabricates and integrates standard and customized high-performance computing platforms and LCD monitors for military, industry, and commercial applications.

Using COTS components, CP Technologies provides solutions for customers who need reliable systems that will operate in a variety of harsh conditions and who require revision control and hardware consistency for multi-year programs.

CP Technologies is an ITAR Registered and ISO 9001:2015 Certified business that has been operating in Southern California for over twenty years.

**Assembled in the USA**  
**ISO 9001:2015 Certified**  
**ITAR Registered**

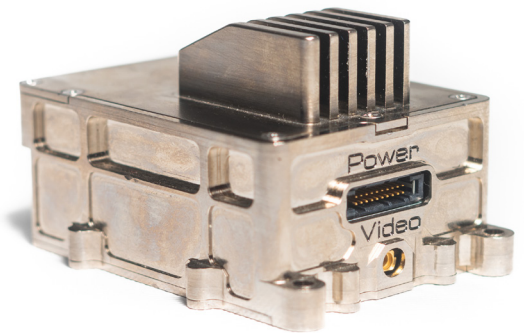
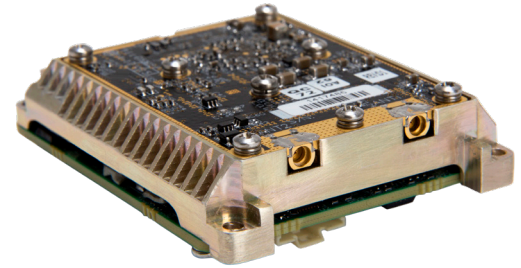
**CP Technologies**  
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# TECH SPECS



## SPECIFICATIONS

<b>INTERFACES</b>	RS-422, RS-232 Ethernet 10/100 Base-T for IP-based data sources
<b>PRIMARY LINK FREQ BAND</b>	S/C Band
<b>MODULATION</b>	GMSK
<b>FORWARD ERROR CORRECTION</b>	Convolution & Reed Solomon
<b>VIDEO COMPRESSION</b>	H.264
<b>COMSEC</b>	AES: 256bit
<b>TRANSEC</b>	FH or DHSS
<b>ENVIRONMENTAL CONDITIONS</b>	MIL-STD-810F / MIL-STD-461E
<b>OPTIONAL DATA RATES</b>	Up to 16 Mbps
<b>TRANSMISSION POWER</b>	250mW - 1W



## GROUND DATA/REMOTE VIDEO TERMINAL

<b>RANGE</b>	10km (Handheld GDT/RVT) 40km (Med Range GDT/RVT) 60km (Long Range GDT)
<b>WEIGHT</b>	450g (Handheld GDT/RVT) 1.5kg (Med Range GDT/RVT) 23kg (Long Range GDT)
<b>POWER SUPPLY</b>	9-36v (Handheld GDT/RVT) 18-36v (Med and Long Range GDT/RVT)

## PLATFORM DATA TERMINAL

<b>CONFIGURATIONS</b>	60g (Bare unit) 100g (Enclosed unit) 185g (Enclosed with video)
<b>DIMENSIONS</b>	61mm x 52mm x 20mm for bare unit, varies with configuration
<b>POWER CONSUMPTION</b>	10-12W

### QUESTIONS?

Reach out to us at  
[combatproven.tech](http://combatproven.tech)  
 or call 858.571.4330

## ENGINEERED TO YOUR SPECIFICATIONS

- In-house engineering department
- Design and build of rapid prototypes. Experience with solving difficult customer application problems through knowledge of the industry and custom system design and manufacturing capability
- Our Engineers use Solid Works 3D CAD modeling software for mechanical design and thermal simulation
- Design experience with MIL-STD-167, MIL-STD-461, MIL-STD-810, and MIL-S-901, in addition to FCC, UL, CE, and country specific agency requirements

## REVISION CONTROL & CONFIGURATION MANAGEMENT

- Our Program Managers will assure your products are revision controlled for the life of the program
- Configuration Management to assure TAA Compliance and system compatibility
- One part number for life of the program
- Counterfeit and obsolescence management

## FACILITY AND TEST

- All integration work is performed in a state-of-the-art, ESD-controlled facility
- Our facility has 23,000 sqft and has dedicated 12,000 sqft to manufacturing and 3,000 sqft to engineering
- Operate to anti-static standard ANSI/ESD S20.20-2007 and electronics assembly standard IPC-A-610, Revision E-2010

## QUALITY COUNTS

- ISO 9001:2015 Certified
- 100% system inspection before shipment
- All integrated systems undergo a minimum 24-hour system test and burn-in before shipment to the customer
- Assistance with 3rd party verification of system specifications
- 5-year warranty on all servers and 3-year warranty on LCD monitor products
- TAA compliant
- Built in the USA

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