EMDLS | EHANCED 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

SPECIFICATIONS

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

Who We Are

CP Technologies designs, fabricates and integrates standard and customized high-performance computing platforms, LCD monitors, and data links 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.

CP Technologies
2620 Deep Well Ranch Road
Prescott, AZ 86301
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TECH SPECS

PLATFORM DATA TERMINAL

CONFIGURATION	Uncased	Cased	Cased With Video Encoder
WEIGHT	60g	100g	185g
DIMENSIONS	61mm x 52mm x 20mm	71mm x 63mm x 24mm	80mm x 62mm x 38mm
POWER CONSUMPTION	10-12W	10-12W	10-12W

GROUND DATA/REMOTE VIDEO TERMINAL

NAME	Handheld GDT/RVT	Med Range GDT/RVT	Long Range GDT
RANGE	10km	40km	150km
WEIGHT	450g	1.5kg	23kg
POWER SUPPLY	9-36v	18-36v	18-36v

QUESTIONS?
Reach out to us at 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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