



MDLS

MINI
DATA LINK
SYSTEM

MINI DATA LINK SYSTEM

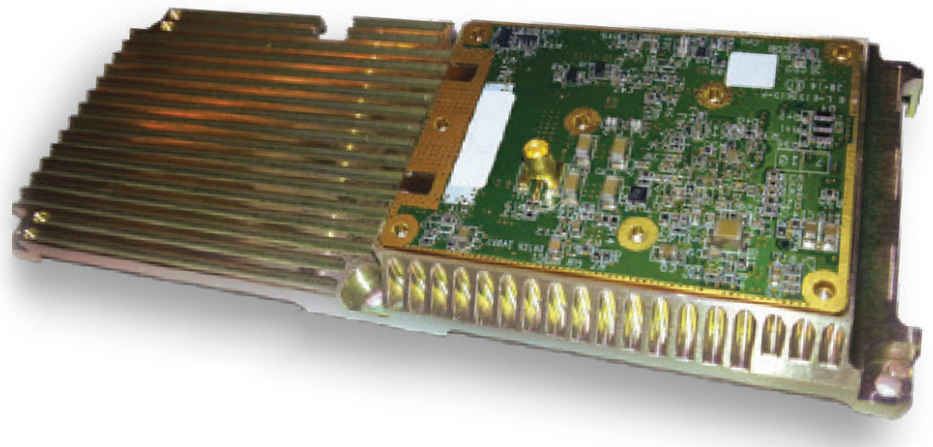
The Micro Data Link System (MDLS) is an advanced single unit digital data link system specifically designed for micro and small size platforms which are sensitive to size, weight and power (SWaP). As an effective solution for most requirements known today, this advanced system uses an open architecture and high-rate communication in the Uplink (UPL) and Downlink (DNL) channels. The MDLS can downlink realtime 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.

APPLICATIONS

- Mini and Micro UAS
- VTOL UAS
- Loitering Munition
- Small UGV

FEATURES

- Light weight
- Small size single unit solution
- Low power consumption
- Variable data rates
- Beyond line of sight via relay
- Embedded encryption
- Embedded video compression



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 SBA-certified small business that has been operating in Southern California for over twenty years.

Assembled in the USA
ISO 9001:2015 Certified
ITAR Registered

CP Technologies
10840 Thornmint Road
San Diego, CA 92127
combatproven.tech
858.571.4330

TECH SPECS



SPECIFICATIONS

| | |
|---------------------------------|--|
| INTERFACES | RS-422, RS-232 Ethernet 10/100 Base-T for IP-based data sources |
| ANALOG VIDEO | NTSC, PAL, CCIR, HD AND RS-170 Monochromatic input |
| DIGITAL VIDEO | SDI |
| PRIMARY LINK FREQ BAND | S/C Band |
| MODULATION | GMSK |
| FORWARD ERROR CORRECTION | Convolution & Reed Solomon |
| VIDEO | H.264 at <120ms end-to-end latency |
| COMSEC | AES: 256bit |
| TRANSEC | FH or DHSS |
| ENVIRONMENTAL CONDITIONS | MIL-STD-810F / MIL-STD-461E |
| OPTIONAL DATA RATES | 2/4/6/8/10 Mbps |
| TRANSMISSION POWER | 200mW / 23dBm |

GROUND DATA/REMOTE VIDEO TERMINAL

| | |
|---------------------|---|
| RANGE | 5km (Short Range GDT/RVT) 15km (Med Range GDT/RVT) 40km (Long Range GDT) |
| WEIGHT | 1kg (Short Range GDT/RVT) 1.8kg (Med Range GDT/RVT) 23kg (Long Range GDT) |
| POWER SUPPLY | 9-36v (Handheld GDT/RVT) 18-36v (Med and Long Range GDT/RVT) |

PLATFORM DATA TERMINAL

| | |
|--------------------------|--|
| DIMENSIONS | ~21mm x 130mm x 51mm |
| WEIGHT | ~98g |
| POWER CONSUMPTION | 10W (including Encryption and Encoder) |

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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