



# AMLS

ADVANCED  
MINI LINK  
SYSTEM

## SMALL PLATFORM DATALINK

The Advance Mini Link System (AMLS) is an advanced single unit digital datalink system specifically designed for unmanned platforms. As a cost-effective solution for most requirements known today, this state-of-the-art 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 AMLS can downlink real-time video images, LAN, serial data and information from most sensors operating today. The AMLS is an affordable system that is suitable for mini and small UAS. It is light-weight, small, has low power consumption and combines commercially proven technologies and standards with advanced algorithms, to provide reliability and high performance. The system's full duplex wideband provides one Uplink for the command to UAV and one Downlink that transmits sensor information and related data from the UAV to ground control.

### APPLICATIONS

- Loitering Munition
- Mini UAS
- Small Tactical UAS
- UGV

### FEATURES

- Long range
- 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 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**  
2620 Deep Well Ranch Rd  
Prescott AZ 86301  
combatproven.tech  
858.571.4330

# TECH SPECS



## SPECIFICATIONS

<b>INTERFACES</b>	RS-422, RS-232 Ethernet 10/100 Base-T for IP-based data sources Analog video: NTSC, PAL, CCIR & RS-170 monochrome input Digital video interface - SDI
<b>PRIMARY LINK FREQ BAND</b>	S/C Band
<b>MODULATION</b>	GMSK
<b>FORWARD ERROR CORRECTION</b>	Convolution & Reed Solomon
<b>END TO END VIDEO LATENCY</b>	<120ms
<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>	2/4/6/8/10 Mbps

## GROUND DATA TERMINAL (GDT) / REMOTE VIDEO TERMINAL (RVT)

<b>RANGE</b>	15km (Short Range GDT/RVT) 75km (Med Range GDT/RVT) 150km (Long Range GDT)
<b>WEIGHT</b>	2.5kg (Short Range GDT/RVT) 3.5kg (Med Range GDT/RVT) 23kg (Long Range GDT)
<b>ACCESSORIES</b>	Tablets/Laptops, Control SW, Batteries, Battery Chargers, Tripods, etc.

## AIRBORNE DATA TERMINAL

<b>DIMENSIONS</b>	27mm x 95mm x 115mm
<b>WEIGHT</b>	~300g
<b>POWER CONSUMPTION</b>	23W

### 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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