



IDLS

INTEGRATED
DATA LINK
SYSTEM

The Integrated Data Link System (IDLS MK-II) is an advanced single unit digital data link system specifically designed for long range operations for medium to large 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 IDLS MK-II 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.

The IDLS-MK II is required to enable secured communication between equipment mounted on an Airborne/Maritime or any remote platform and a central station. The Ground Data Terminal (GDT) can be stand alone on a tripod, installed on a HQ vehicle or on a roof. The IDLS-MK II supports downlink which includes high bandwidth data from the remote platform to the GCS. The IDLS-MK II supports uplink to the remote platform and commands from the GCS. The IDLS-MK II maintains the link during all parts of the mission as long as LOS is kept.

APPLICATIONS

- Mission Aircraft
- Mission Helicopters
- Tactical UAS
- MALE & HALE UAS

FEATURES

- Long range
- Multi-antenna support
- Low power consumption
- Variable data rates
- Remote frequency change capability
- High reliability and low cost cycle
- 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
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TECH SPECS



SPECIFICATIONS

INTERFACES	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
PRIMARY LINK FREQ BAND	S/C Band
FORWARD ERROR CORRECTION	Convolution & Reed Solomon
END TO END VIDEO LATENCY	<120ms
VIDEO COMPRESSION	H.264
COMSEC	AES: 256bit
TRANSEC	FH or DHSS
ENVIRONMENTAL CONDITIONS	MIL-STD-810F / MIL-STD-461E
OPTIONAL DATA RATES	2/4/6/8/10 Mbps

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

RANGE	15km (Short Range RVT) 75km (Med Range RVT) 250km (Long Range GDT)
WEIGHT	1kg (Short Range RVT) 3.5kg (Med Range RVT) 70kg (Long Range GDT)
ACCESSORIES	Tablets/Laptops, Control SW, Batteries, Battery Chargers, Tripods, etc.

AIRBORNE DATA TERMINAL

DIMENSIONS	238mm x 222mm x 42mm
WEIGHT	~2.5kg
POWER CONSUMPTION	160W

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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