



# PHOENIX

COMPACT  
DATA LINK  
SYSTEM



## MICRO DATA LINK SYSTEM

CP Technologies' new generation of advanced datalink solution - the Phoenix constitutes a pinnacle of excellence offering high-end performance in ever changing operational environments, combined with leading proprietary and combat proven technologies.

The Phoenix is a leading SDR (Software Defined Radio) system designed to provide high performance data transmission. The Phoenix enables full duplex with MIMO capabilities. Advanced error correction techniques and algorithms were implemented to improve link robustness and reliability in challenging operational scenarios. CP Technologies proprietary AiMo™ - CP Technologies' adaptive modem, provides the user with an adaptive modem operating either single carrier or multi carrier modulation as required. The Phoenix is equipped with inbuilt 2 proprietary HD video encoders allowing concurrent encoding, decoding and transmission of multiple HD video streams.

## 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



## MOBILE UNIT

<b>TRANSMISSION POWER</b>	2 ports of: 36dBm31dBm@S-Band 2 ports of: 33dBm31dBm@C-Band
<b>VIDEO COMPRESSION</b>	SD/HD H.264
<b>INPUT POWER</b>	Input Power 9-54 VDC (28VDC Nominal)
<b>POWER CONSUMPTION</b>	Typical: 30W Full scale operation: up to 40W
<b>WEIGHT</b>	300gr (10.6oz)
<b>DIMENSIONS</b>	85.4cm x 116cm ( 33.62" x 45.67" )
<b>PORTS</b>	2 Analog video inputs composite video 2 HD - SDI inputs 2 Ethernet 2 independent RF chains & ports Multiple RS422 or RS232 interface

## REMOTE VIDEO UNIT

<b>TRANSMISSION POWER</b>	30dBm31dBm@S-Band 30dBm31dBm@C-Band
<b>POWER CONSUMPTION</b>	<8W
<b>INPUT POWER</b>	18-36VDC
<b>WEIGHT</b>	-10kg (22lbs)
<b>DIMENSIONS</b>	Height: 171-201 cm (67.32" - 79.13") Base diameter: <178cm (70.01")
<b>FEATURES</b>	Ethernet port 10/100MB Planar & Omni antennas Powered by external power source or battery MR2716 Lithium Ion Rechargeable battery pack

## STATION UNIT - LONG RANGE

<b>TRANSMISSION POWER</b>	35dBm31dBm@S-Band 33dBm31dBm@C-Band
<b>POWER CONSUMPTION</b>	≤ 250W
<b>INPUT POWER</b>	18-36VDC
<b>WEIGHT</b>	30-35kg (66-77lbs)
<b>DIMENSIONS</b>	Base diameter: 185cm max (72.83") Height: ~200cm (78.74")
<b>FEATURES</b>	Ethernet port 10/100MB (Control & Data) Multiple RS422 or RS232 Optional Video Interface Dish & Omni antennas

### 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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