

# UVR

## UHF/VHF RADIO SYSTEM



The UHF/VHF Radio (UVR) is an advanced analog/digital data link system that has been specifically designed for manned and unmanned platforms to handle both audio and data transmission.

The UVR's open architecture enables transmitting audio and Ethernet signals.

The UVR voice/data transceiver enables voice or data communication over VHF and UHF frequency band. The transceiver is software controlled implementing both analog and digital modulations. The transceiver supports wide frequency range from 30MHz to 512MHz utilizing various modulations. The lightweight transceiver design supports both ground and airborne installation.

The UVR system is a radio communications equipment designed to provide the wide range of functional options, in order to meet diversified operational requirements. This solution consists of a multi-band, multi-mode transceiver, providing a clear and secure voice and data communications facilities over an extended frequency range.



## FEATURES

- Long range
- Optimized bandwidths for variable data rates
- ROIP (Radio over IP) supported
- Remote frequency change capability
- Half / Full duplex (UPL&DNL)
- High reliability and low life cycle cost
- Optional preset channel and guard frequencies

## APPLICATIONS

- MALE & HALE UAS
- Ground applications
- Tactical UAS
- USV

## 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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San Diego, CA 92127  
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# TECH SPECS



## SPECIFICATIONS

<b>INTERFACES</b>	RS-422, RS-232 Ethernet 10/100 Base-T for IP-based data sources Audio In/Out Discreet I/O
<b>FREQUENCY BAND</b>	30-512 MHz
<b>FREQUENCY RESOLUTION</b>	8.33kHz (ATC: 118-137MHz) / 12.5kHz / 25kHz
<b>MODULATION</b>	FM, FSK, GMSK, optional AM
<b>FORWARD ERROR CORRECTION</b>	Convolution & Reed Solomon
<b>COMSEC</b>	AES: 256bit
<b>TRANSEC</b>	FH or DHSS
<b>ENVIRONMENTAL CONDITIONS</b>	MIL-STD-810F / MIL-STD-461E

## ADT

<b>WEIGHT</b>	-1.9kg
<b>DIMENSIONS</b>	261mm x 155mm x 49mm
<b>POWER CONSUMPTION</b>	150w nominal
<b>POWER SUPPLY</b>	18-36v
<b>MAX TRANSMISSION POWER</b>	20w

## GDT

<b>WEIGHT</b>	8kg
<b>DIMENSIONS</b>	420mm x 314mm x 119mm
<b>POWER CONSUMPTION</b>	150w nominal
<b>POWER SUPPLY</b>	18-36v
<b>MAX TRANSMISSION POWER</b>	20w

## 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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