

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 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 Road
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TECH SPECS



SPECIFICATIONS

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

ADT

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

GDT

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