

# Silver Palm Technologies

Integrated Systems and System Components



**A wireless engineering company that specializes in high quality products, custom services, and quick-reaction solutions that support radio frequency and microwave distribution, signal conditioning, down and up conversion, and signal processing.**

**Your Solution From Antenna to Data**

**SP**

*Technologies*

## Integrated Systems

Silver Palm Technologies offers a number of integrated systems ranging from small packaged SDR transceivers like the WB-1304 to mast mount tuner and digitizer systems like the SP-1394. The in-house design and fabrication facilities allows these systems to be quickly designed and manufactured for custom requirements.

### VNT-1301

The VNT-1301 is a highly integrated customizable software-definable system housed in a watertight Pelican Storm Case. The system holds a software-definable transceiver and includes a transmitter power amplifier, automatic Tx/Rx switching, a high isolation transmit switch to avoid self-jamming, and a GPS receiver. The VNT-1301 operations are Ethernet controlled.



### WB-1304

The WB-1304 is a software-definable transceiver system in a mini-suitcase. It includes an Analog Devices ADRV9361 transceiver module, transmitter power amplifier, high isolation transmit switch to prevent self jamming, a GPS receiver, DC power supplies, and internal batteries to allow for standalone operations. All the system operations are Ethernet controlled.

### SP-1394

The SP-1394 is a mast-mount quad tuner and digitizer system. It holds an SP-1342 quad 20M-6000M tuner/digitizer and SP-4342 2x4 RF antenna switch. The NEMA 3R enclosure can be tower mounted. A single Fiber Optic 10/100 Mb Ethernet link (SFP) controls the SP-1394. The VITA 49 Tuner Digital IF output data is provided on a Fiber Optic 10 Gb Ethernet link (SFP+). The system can be powered from either 90-250VAC or 24 VDC.



# System Components

Silver Palm Technologies has a number of system components available to assist RF system design and integration. These include rack mount equipment frames for receivers and high performance Rx/Tx switches for transceiver systems.



## SP-1380

The SP-1380 is a 1U equipment frame that allows rack mounting of one to eight SP-8383 VHF/UHF tuners. It includes a high stability internal reference, an AC-to-DC power supply, and Ethernet interfaces for the installed tuners.

## SP-1382

The SP-1382 is a 1U equipment frame that allows rack mounting of one to four SP-8385 VHF/UHF tuners. It includes a high stability internal reference and an AC-to-DC power supply.



## SP-4303

The SP-4303 is an SDR Rx/Tx switch for use in the portable software-definable transceiver system. It provides automatic or manual Rx/Tx switching for use with a Tx power amplifier and single antenna.



## SP-4308

The SP-4308 is a module that provides RF and DC switching to support high power Tx amplifiers. It is intended for use in conjunction with the SP-4303 Rx/Tx switch and allows the use of up to 100W Tx power amplifiers.





# Custom Systems Packaging and Integration Capabilities

Silver Palm Technology can provide quick reaction, low quantity, RF/DSP system packaging, and integration at a cost-effective price. With full in-house design and modeling capabilities for RF engineering, DSP engineering, system software integration, and mechanical packaging, Silver Palm Technologies can quickly provide a quote for your system integration and packaging requirements.



*For more information, visit [www.silverpalmtech.com](http://www.silverpalmtech.com), e-mail [info@silverpalmtech.com](mailto:info@silverpalmtech.com), or call 301-874-0065.*