

VT-RX-SC2U-1U All Band Receiver

The VT-RX-SC2U-1U is a 1U rack mounted Receiver that provides full Tri-band coverage for the telemetry bands (IRIG 106 - L/S/C bands). This fully digital direct conversion receiver provides dual channel trellis based bit synchronization functionality for PCM-FM (TIER0) and SOQPSK-TG (TIER1) and **Multi-h CPM (TIER2) reception**.



VT-RX-SC2U-1U All Band Receiver

The VT-RX-SC2U-1U ultra performance all band receiver system offers a no compromise, high density data reception (and optionally transmission) solution, with integrated dual channel all band (70MHz to 6GHz) receivers, post detect combiner, integrated digital bit syncs, optional frequency analyzer and even optional dual channel transmitters. All this in a 1U rackmount form factor with low heat dissipation.

The VT-RX-SC2U-1U can operate stand alone or tethered. Remote control and monitoring is supplied as standard which allows the supplied Windows compatible control software be used locally or remotely for single or multiple units. This easy to use full function graphical software interface controls and monitors all aspects of the VT-RX-SC2U-1U receiver systems operation.

The VT-RX-SC2U-1U receiver system has a very wide bandwidth of more than 30 MHz per channel over the range 70MHz to 6GHz and an ultra low total noise figure of better than 4db.

Uniquely the VT-RX-SC2U-1U digital receiver can also supply analog data reception outputs suitable for legacy operation, such as analog Video reception, and improved performance AM down to below -125dBm for use with Auto Tracking antenna systems.

Optional features include: Front Panel Display/Keyboard Chassis, LDPC, Reed Solomon Error Correction, Multi-h CPM, Space Time Code (STC), high data rate operation to 30 Mbps and standalone Rackmount Controller panel and/or software.

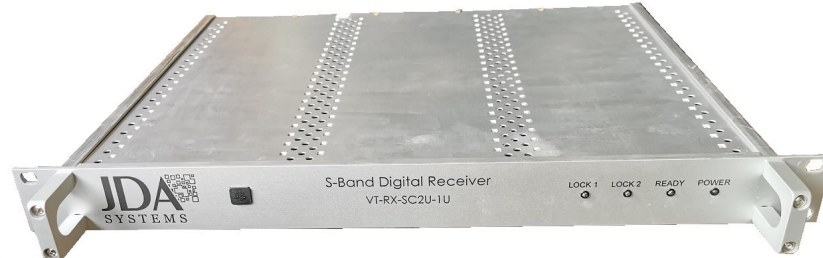
Manufacturer (OEM):

JDA Systems, Gutenbergstrasse 4,
26632 Ihlow Riepe, Germany
Tel: +49-4928-91560; E-mail: sale@jda-tele.com

American Distributor:

5K Technologies LLC
1030 Cox Avenue
Tel: (215) 934-1598 E-mail: sales@5K-Tech.com

VT-RX-SC2U-1 Receiver Features



- Two Fully Digital Direct Conversion Receivers Per Chassis
- All Band Operation of 70MHz to 6GHz with 1KHz tuning resolution
- Compact and low power design
- Rugged construction
- LDPC codes—all combinations
 - Block sizes (k=4096 bits and k=1024 bits)
 - Code rates (r=1/2, r=2/3, and r=4/5)
- Post Detection Combiner
- Receives AM, FM, PM, BPSK, QPSK, AQPSK, AUQPSK, OQPSK, SOQPSK, Multi-h CPM, VIDEO PM demodulation loss 1.5dB(max) @ 1Mbps/1rad
- 0.4 to 1.5 rad @ PM 1Mbps BIØ-L
- BPSK/QPSK output unique digital root Nyquist (square) relating to output bandwidth
- Programmable tracking BW to +/-200kHz with 1KHz resolution
- Fully Programmable input BW and Input Filter with 1Hz resolution
- Low Total Noise of Less Than 4dB
- High Absolute Sensitivity < -125 dBm
- RF input maximum level -10dBm
- AGC with automatic response setting 1 to 100mSec
- Wide Band Operation greater than 30 MHz
- Digital Trellis Based Dual Bit Syncs 8kbps to >15 Mbps with 1Hz resolution
- Data types NRZ-L/M/S, RZ, BIØ-L/M/S, DM-M/S, M2-M/S, RNRZ-L9/11/15/17/23
- TCP/IP Direct Receiver Interface
- AGC Signal Level and Time Broadcast at 20Hz
- Embedded 9-axis INU with 10Hz to 100Hz Broadcast
- BIT Self Test: 0 Operational, 1 Startup, 2 DSP Initialize, 3 RF Initialize, 4 Comm Error, 5 Message Error, 6 Time Lost.
- USB Remote Control Interface
- Easy to use Windows Compatible Graphic User Interface
- RF SMA female inputs @ 50Ohm, VSWR < 1.5
- Dual RS232 pass through ports
- Analog Outputs for AGC, AM and data suitable for legacy Video Reception and Auto Tracking Antenna Control
- Dimensions mm 160W x 112W x 42H
- Weight 815g
- 6V-12V DC Operation
- Less Than 7W Heat Dissipation
- Mini BNC analog outputs 0-5V AGC1, AM1, FM1 (Video), AGC2, AM2, FM2(Video)
- TTL level Data1, Clock1, Lock1, Data2, Clock2, Lock2
- RJ45 100MB Ethernet Remote Control & Monitoring Interface



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