

QUASONIX RDMS™ Comparison

	Gen 2	Gen 2 With EQ or STC	Gen 3 (1U)	Gen 3 (3U)
Complete receiver - downconversion, demodulation, and bit synchronization	✓	✓	✓	✓
True trellis demodulation in all ARTM modes	✓	✓	✓	✓
3.5 to 5 dB improvement in PCM/FM performance over single-symbol demodulators	✓	✓	✓	✓
Best SOQPSK-TG detection in the industry	✓	✓	✓	✓
Enhanced modulation index tracking for PCM/FM	✓	✓	✓	✓
Phase noise compensation	✓	✓	✓	✓
Rapid synchronization	✓	✓	✓	✓
Maximal ratio diversity combiner	✓	✓	✓	✓
Tuning range from 200 MHz to 5250 MHz	✓	✓	✓	✓
Typical 3.5 dB noise figure	✓	✓	✓	✓
Available in 1U rack-mount chassis	✓	✓	✓	
Available in 3U rack-mount chassis				✓
LDPC decoding with SOQPSK	✓	✓	✓	✓
Integrated BERT	✓	✓	✓	✓
Remote control via Windows™ GUI	✓	✓		
Remote control via web interface (using standard web browsers)			✓	✓
Remote control of multiple receivers from one computer	✓	✓	✓	✓
Adaptive equalizer		*	✓	✓
Space-Time Coding (STC) with SOQPSK		*	✓	✓
Full-color 7-inch touchscreen control				✓
Spectrum display			✓	✓
Easy field upgrades			✓	✓
HDMI output and USB input for external touchscreen			✓	✓
Simultaneous TTL and RS-422 outputs			✓	✓
Number of clock and data outputs	6	6	12	24
Number of high-speed analog (video) outputs	4	4	10	12
Number of low-speed analog outputs (includes AM and AGC)	6	6	6	12
Number of 70 MHz outputs	2	2	3	6
Combiner high-speed analog (video) outputs			✓	✓
Combiner IF output			✓	✓
Built-in playback demodulators (2)			✓	✓
Best-source pre-D combiner mode			✓	✓
30x faster AGC loop			✓	✓
Improved dynamic combiner performance			✓	✓
Automatic AGC zeroing			✓	✓
AFC for legacy modes			✓	✓
PCM decoding for NRZ-L/M/S, BiΦ-L/M/S, RZ, DM-M/S, M2-M/S			✓	✓
BERT control/status via remote control interface			✓	✓
Improved self-test			✓	✓
PCM deframing (header detection/extraction, SFID checking/extraction)			✓	✓
Payload data on Ethernet			✓	✓
Data Quality Encapsulation			✓	✓

* Available on certain serial numbers only, and/or with limitations