

X-COM IQC1040™

I/Q Data Capture & Storage for Tektronix Spectrum Analyzers



RF Signal Capture and Storage Solution in a Rugged, Portable Package

The X-COM IQC1040™ is a scalable, high-speed, real-time capture and storage device for Tektronix Real-Time Spectrum Analyzers (RSAs). This robust device expands the functionality of Tektronix RSAs by offering a recording solution with a sustained speed of 200 MB/sec and one terabyte of non-volatile storage. When combined with the Tektronix RSA6100A and X-COM CPG (Continuous Playback Generator), users can record and playback 80 minutes of in-phase and quadrature data at up to 40 MHz bandwidth.

The portable IQC1040™ can be used as an RF signal logger in both laboratory and rugged field testing environments. X-COM's WaveCAFE™ software – which is used as the IQC1040™ interface software – can be used for advanced analysis and post-processing of the stored data. Individual segments of the captured segments can be imported into WaveCAFE™ for rapid RF analysis. Captured data can also be off-loaded for archiving purposes to external drives or transferred directly to a PC via Gigabit Ethernet.

Specifications

Available Configurations Rugged enclosure or 19" rack mount	
Data Rate:	Up to 200 MB/sec sustained
Duration:	1 TB provides 80 minutes of capture at 40 MHz
Storage Capacity:	1 TB
Capture Interface:	16 Bit I; 16 Bit Q
External Interface:	Gigabit Ethernet
Size:	8 3/4" H (5U) x 17 1/2" W x 14 3/8" D
Weight:	Less than 50 lbs
Power:	Approx. 150-300 Watts
Operating:	0° to 60°C
Non-Operating:	-20° to 70°C

Add-On Options Available for X-COM IQC1040™

CPG: X-COM's Continuous Playback Generator (CPG) enables continuous playback of Captured RF signals by converting I and Q data captured on X-COM's IQC1040™ then streaming the baseband data into a vector signal generator for up-transmission at the original RF frequency and spectrum.

DP1040 Removable DataPacks: 1 TB removable DataPack to increase amount of storage for the IQC1040™ and provide easy secure storage and archiving solutions.

Shipping Case: Durable shipping case solutions available.



Features

- * Compatible with Tektronix RSA6100A Series
- * 1 Terabyte Storage
- * Capture 80 minutes of I & Q data at 40 MHz bandwidth
- * Removable storage datapack
- * Acquires I & Q input LVDS data from RSA
- * Rugged enclosure
- * Network-enabled
- * Detailed analysis of data with WaveCAFE™ software

Applications

- * Real-time Signal Recording and Playback
 - Telemetry
 - Sonar
 - Radar
 - Satellite
 - Video
 - SIGINT
 - ELINT
 - COMINT
- * System Validation
- * Simulation
- * Training and Signal Library Development
- * Wideband RF Storage