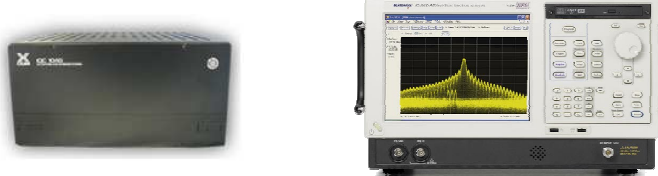


# X-COM IQC1040

## RF Signal Capture and Storage for Tektronix Real-Time Spectrum Analyzers



### RF Signal Capture & 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 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. Data is stored in open source non-proprietary format.

### Specifications

<b>Configurations:</b>	19" rack mount
<b>Data Rate:</b>	Up to 200 MB/sec sustained
<b>Duration:</b>	Provides over 80 minutes of capture up to 40 MHz
<b>Storage Capacity:</b>	1 TB per Datapack
<b>Capture Interface:</b>	16 Bit I; 16 Bit Q
<b>Network Interface:</b>	Gigabit Ethernet
<b>Size:</b>	IQC 4U (19"W x 14"D x 7"H) CPG 2U (19"W x 14"D x 3.5"H) Each DP 2U
<b>Weight:</b>	IQC 35 lbs DataPack 30 lbs CPG 5 lbs
<b>Power:</b>	150-300 Watts

### Accessories

**CPG:** X-COM's Continuous Playback Generator (CPG) enables continuous playback of captured RF signals by converting I and Q data from the IQC1040 to baseband signals which can be converted to RF by any Vector Signal Generator.

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

#### ➤ Features

- Compatible with any of the family of Tektronix RSA6100A Real Time Spectrum Analyzers
- 1 Terabyte storage per DataPack
- Datapacks can be daisy chained and/or rapidly swapped out
- Capture over 80 minutes up to 40 MHz bandwidth of I & Q data
- Acquires I & Q input LVDS data from RSA
- Network-enabled
- Detailed analysis of data using WaveCAFE and Spectro-X software or any signal analysis tool

#### ➤ Applications

- Real-time Signal Recording, Analysis and Playback
  - Telemetry
  - Sonar
  - Radar
  - Satellite
  - Video
  - SIGINT
  - ELINT
  - COMINT
- System Validation
- Simulation
- Training and Signal Library Development
- Wideband RF Storage for Online Analysis
- Recreation of Complex RF Environments

Preliminary Specifications Subject to Change

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