

Xgig® Jammer – SAS/SATA Error Injection to 6 Gb/s

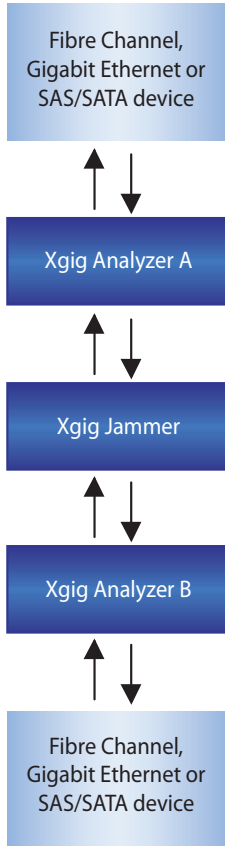


Figure 1

Key Features

- Support for 6.0 Gb/s SAS and SATA (including SMP & STP)
- Also supports 1, 2, 4 & 8 Gb/s Fibre Channel, 1 Gb/s Ethernet, 1.5 & 3.0 Gb/s SAS/SATA (including SMP & STP)
- Improved Maestro User-Interface for Configuration & Management of Jammer Functions
- Modify Bits, Bytes & Words or Delete a Frame
- Pass, Overwrite or Recalculate the CRC

Don't Just Guess — Know It Will Work

With the JDSU Xgig® Jammer, product developers and testers can manipulate traffic on a network to simulate (inject) errors in real time, and verify that the recovery process operates as expected. With Jammer, users can know that Fibre Channel, SAS/SATA and Gigabit Ethernet networks recover from all error conditions without data loss or corruption.

The Xgig Jammer normally acts as a digital pass-through device passing network traffic (figure 1). However, when it encounters a user-defined event (trigger condition) within network traffic, it replaces the trigger contents with new information provided by the user.

For example, replacing one payload word's contents within a frame with a code violation simulates a common error condition - a bit error (figure 2). This same error, applied to all the payload's words, can force another commonly tested condition - loss of signal. With Jammer's possibilities, testing "what if" is only limited by your imagination

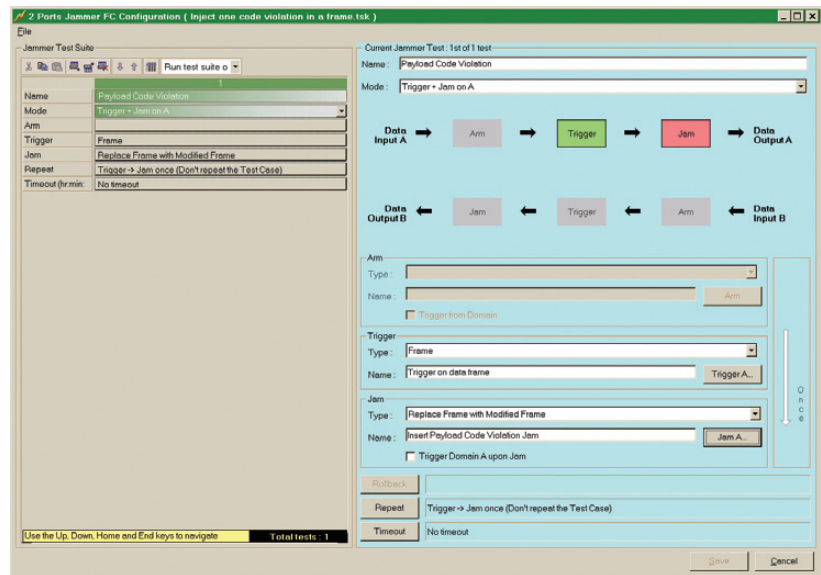


Figure 2

New for Release 2.9

- Supports 6.0 Gb/s SAS and SATA (including SMP and STP)
- Updated Maestro multi-application framework user interface (figure 3)

General Features

- Execute multiple jam tests from a test stack
- Triggers shared with other Xgig devices in the same Xgig domain
- Allows forcing of link to either SAS or SATA
- Allows forcing of link to either 1.5, 3, or 6 Gb/s
- Controllable out-of-band (OOB) and speed negotiation

Event Modifications

The following list details the events on which the Jammer can operate. (Events can be ordered sets, frames, or primitives.)

Primitives & Ordered Set Modification

- Replace an ordered set/primitive with another ordered set or primitive, or corrupt it with errors
- Replace a sequence of ordered sets/primitives (“Zero Delay” operation)

Frame & Packet Modification

- Any word in a frame or packet may be replaced by a user-defined value or changed randomly
- Frames or packets may be truncated, or replaced with idles
- CRC and the IP and TCP checksums may be corrected, creating a valid frame or packet
- SOP, SFD, EOP and Carrier Extend (Gigabit Ethernet packets) may be modified or replaced

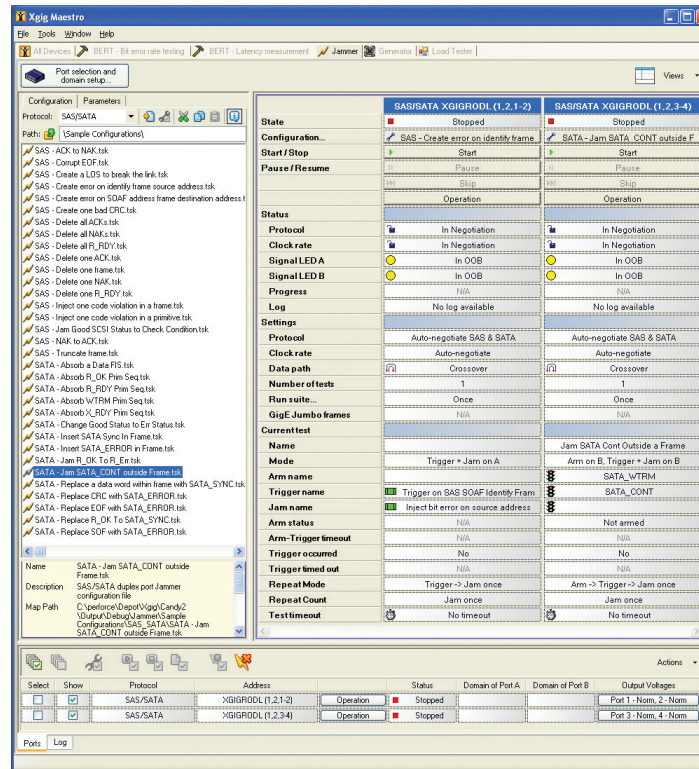


Figure 3

Part Numbers:

Blade: Xgig-B860SA (2x Wide-Port (8-port) SAS/SATA Blade)

Development Software Options (licensable per port pair):

Xgig-S26JS Wide-Port 6Gb/s SAS/SATA Jammer Function Key (2 ports / 1 link)
 Xgig-S46JS Wide-Port 6Gb/s SAS/SATA Jammer Function Key (4 ports / 2 links)
 Xgig-S86JS Wide-Port 6Gb/s SAS/SATA Jammer Function Key (8 ports / 4 links)

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