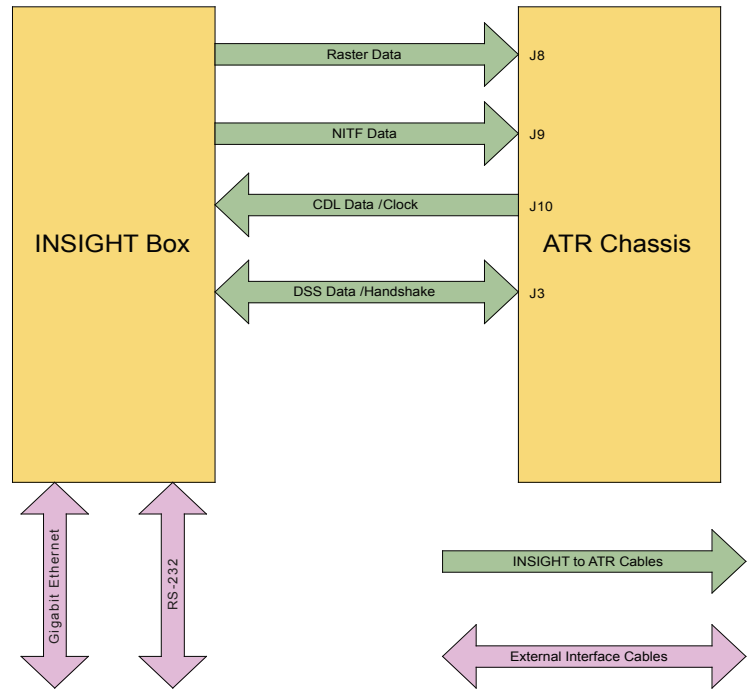




## Test Configurations

### ARCH Test Configuration

In this configuration, INSIGHT can simulate sensor imagery for ARCH and capture the resultant compressed ARCH output, aiding ARCH acceptance testing, as well as fault isolation. Raster and NITF data are loaded into INSIGHT memory from internal FLASH memory or from a host computer via gigabit ethernet. INSIGHT simulates sensor data with adjustable timing of clock frequency and handshake parameters. Resulting compressed data can be stored in INSIGHT memory for download to host computer. Compressed data can also be compared on the fly to expected data and flagged for errors. All ARCH modes including DSS playback to CDL can be exercised. This configuration can be used to test ARCH suites without removal from a SHARP pod.



### SHARP Test Configuration

INSIGHT is able to capture raw camera raster and NITF data as well as the resultant compressed DSS and CDL data by placing INSIGHT in series between the SHARP pod and the ATR chassis. The camera-to-ARCH interface can be analyzed for timing or other logical problems. Short bursts (up to 512MB) of raw camera data can be stored for upload to the host computer for analysis. DSS data can be played back to the host computer via gigabit Ethernet either directly or through the CDL interface. This configuration can be used to isolate pod problems to a particular subsystem (camera, ARCH, DSS, CDL) without having to remove any of the subsystems from the pod.

