

ZMQ Interface

Index	PORT NO. (x is slot number)	ZMQ Mode	Server	Client	Description
1	610x	REP-REQ	TestEngine	Sequencer/Debug	Command to engine execution
2	615x	PUB-SUB	TestEngine	GUI	Heart Beat
3	620x	REP-REQ	Sequencer	StateMachine / Debug	Command to control Sequencer
4	625x	PUB-SUB	Sequencer	StateMachine/Logger/GUI	Publish test item status
???	630x	PUB-SUB	TE_PROXY		
5	635x	PUB-SUB	Sequence_PROXY		
???	6400	REP-REQ	DATALOGGER		
???	6450	PUB-SUB	DATALOGGER		
6	6470	PUB-SUB	Sip-Fixture	Debug	Publish Fixture Action
7	6471	REP-REQ	Sip-Fixture	StateMachine	Fixture control
8	6480	REP-REQ	StateMachine	GUI / SipFixture	Command to control state machine
9	6580	PUB-SUB	StateMachine	GUI	Heart Beat
???	6700	REP-REQ	DEBUG_LOGGER		
10	6780	PUB-SUB	Logger	GUI	Heart Beat
11	680x	PUB-SUB	ARM DUT	Debug	Publish DUT output
12	6880	PUB-SUB	StateMachine	GUI	Heart Beat
???	6900	PUB-SUB	LOGGER		
13	699x	PUB-SUB	ARM HW	Debug/Logger	Publish command and response of ARM
14	700x	REP-REQ	ARM DUT	Debug	Debug panel send command to DUT
15	799x	REP-REQ	Logger	TestEngine	Get the log path from logger

Class	Collaborators	Responsibilities
GUI	SM	Display Test Results Display Fixture Status Display test statistics Provide controls to kick off tests
	Sequencer	
	TestEngine	
Sequencer	SM	Responds to sequence start, signal sequence end Responds to run/abort, signals end Responds to debug command: r, c, s, Read sequence from database Maintain PC and next step. Send each command to TestEngine Recognize special command (Diag, detect)
	SEQ CLI	
	Flow Debugger	
Test Engine	InstrumentPanel	1. Dispatch function calls based on incoming requests 2. Report per item results
	DUT Panel	
	Instrument Driver	
	DUT Driver	
	DataLogger	
SM	Sequencer	Maintain statemachine for Automation/Operator to test sequence interaction
Pudding/CSV Logger	Sequencer	Report Test Data to InstandPudding Record Test Data in CSV Record Test Flow Log
	TestEngine	
Debug Logger	Any Object	Record all debug statement and published events based on pre-configured logging level