

Basic Diagnostics

1. Time skew < ±100µsecc

State Machine for Timeskew

State	Nominal
Skew	17.422 micro-second
Clock Intv	0.000 pico-second

IP Address	IP address not	Upper Word	Lower Word
Firmware Ver	0	PulseID	174 -975280394
Allow Engines	1	Timestamp	2018/09/24 12:57:02.927300535
Beam Engines	1		
Expr Engines	17		
BSA Arrays	20		
Seq AddrWidth	11		
FIFO AddrWidth	0		

	Manual Fault	BCS Fault	MPS Fault	Tag	MPS Tag	
FLT Buf 0	0x0	0x0	0x0	0x0	0x0	Clear
FLT Buf 1	0x0	0x0	0x0	0x0	0x0	Clear
FLT Buf 2	0x0	0x0	0x0	0x0	0x0	Clear
FLT Buf 3	0x0	0x0	0x0	0x0	0x0	Clear

PLL Change Counter	1
186MHz Counter	538098392
Sync Err Counter	39
Interval Counter	122879999
Base Rate Trig Counter	480000
TX Clock Counter	1651906763
Delta TxClk	15435168
TX Clock Rate (M counts/sec)	123.481

MPS Link Diagnostics	
Physical Link Rx	Fault
Physical Link Tx	Fault
Local Link	Fault
Remote Link	Fault
Rx Clock Frequency	0
Tx Clock Frequency	0

ALW00	ALW08	DST00	DST08	EXP00	EXP08	EXP16
ALW01	ALW09	DST01	DST09	EXP01	EXP09	

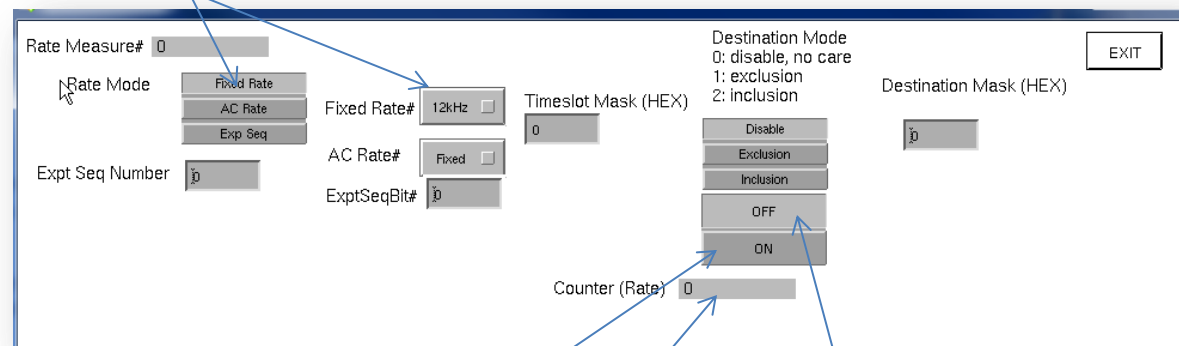
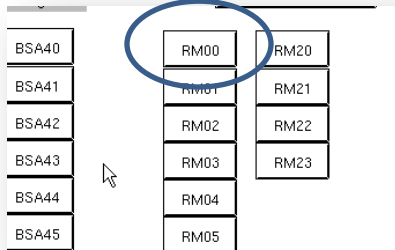
3. Base rate trig counter, 480000

2. Keep increasing counters

3. Tx Clock rate near by 123 M

Rate Measurement (RM)

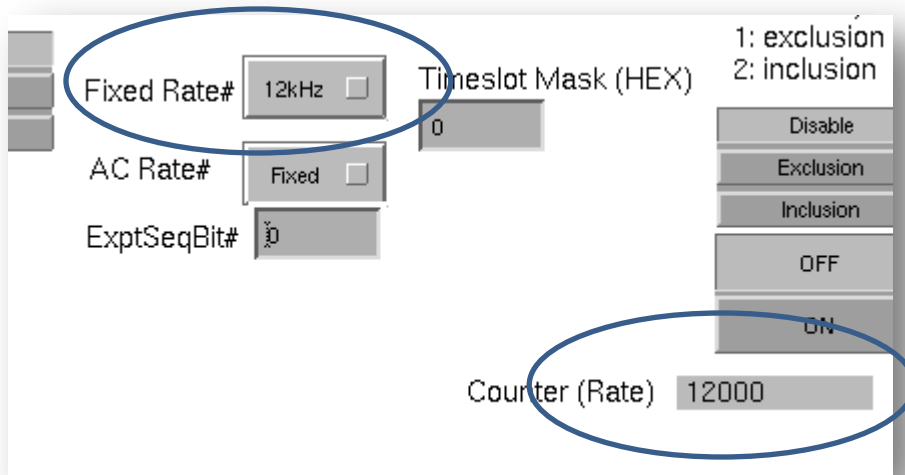
1. Choose one of Rate Measurement (RM) System
2. Choose Fixed Rate



3. Turn on the RMsystem

4. Wait until the rate value is settled

5. Turn off the RM system



6. The measured rate should be matched with the fixed rate selector