

MSSMon DynamicChirpCfg ClockOutCfg CalibDataCfg Import_Export

Connection StaticConfig DataConfig TestSource SensorConfig IntChirpBlkChirp RegOp ContStream BPMConfig AdvFrameConfig RampTimingCalculator

Board Control

Reset Control

Reset

Set (1)

SOP Mode controlled via jumper on EVM

RS232 Operations

COM Port: COM10

Baud Rate: 115200

Connect (2)

Operating Frequency

60 GHz

77 GHz

Device Variant

XWR12xx xWR6843

XWR14xx xWR1843

XWR16xx

No. of Devices Detected: 1

FTDI Connectivity Status: **Connected**

RS232 Connectivity Status: **Disconnected**

SPI Connectivity Status: **Disconnected**

Device Status:

Die Id:

BSS firmware version:

BSS Patch firmware ver:

MSS firmware version:

MSS Patch firmware ver:

GUI Version: **2.1.1.0**

Radar Link Version: **2.0.9.0 (31/07/19)**

Post Proc Version: **4.86**

Files

BSS FW: C:\mmwave_studio_02_01_01_00\rf_eval_firmware\radarss\wvr68xx_radarss.bin **Load (3)**

MSS FW: C:\mmwave_studio_02_01_01_00\rf_eval_firmware\masterss\wvr68xx_masterss.bir **Load (4)**

Config File: **Load**

SPI Operations

SPI Connect (5)

RF Power-up (6)

```
[09:42:28] RSTD.SetVar ("/Settings/Clients/Client 2/Use" , "FALSE")
[09:42:28] RSTD.SetVar ("/Settings/Clients/Client 3/Use" , "FALSE")
[09:42:28] RSTD.SetVar ("/Settings/Clients/Client 4/Use" , "FALSE")
[09:42:28] RSTD.SetVar ("/Settings/AL Client/AL Dll" , "C:\\a\\mmwave_studio_02_01_01_00\\mmWaveStudio\\RunTime\\SAL.dll")
[09:42:28] RSTD.SetVar ("/Settings/Clients/Client 0/Guid11" , "")
[09:42:28] RSTD.SetVar ("/Settings/AutoUpdate/Enabled" , "TRUE")
[09:42:28] RSTD.SetVar ("/Settings/AutoUpdate/Interval" , "1")
[09:42:28] RSTD.SetVar ("/Settings/Monitors/UpdateDisplay" , "TRUE")
[09:42:28] RSTD.SetVar ("/Settings/Monitors/OneClickStart" , "TRUE")
[09:42:28] RSTD.SetVar ("/Settings/Automation/Automation Mode" , "false")
[09:42:28] RSTD.Transmit("/")
[09:42:28] RSTD.SaveSettings(): Settings saved to "C:\Users\admin\AppData\Roaming\RSTD\config.xml"
[09:42:28] RSTD.Build()
[09:42:28] RSTD.SaveSettings(): Settings saved to "C:\Users\admin\AppData\Roaming\RSTD\config.xml"
[09:42:29] RSTD.Transmit("/")
[09:42:29] RSTD.AL_Build()
[09:42:29] RSTD.AL_LoadXml()
[09:42:29] RSTD.Transmit("/")
[09:42:29] RSTD.AL_Init()
[09:42:29] RSTD.Clients_Build()
[09:42:29] GM: Init
[09:42:29] GM: Loaded 'C:\mmwave_studio_02_01_01_00\mmWaveStudio\Clients\LabClient.dll'
[09:42:29] GM: 1 Guest (s) init
[09:42:29] GM: 1 Module(s) init
[09:42:29] GM: 2 Tab (s) init
[09:42:29] RSTD.Client_LoadXml()
[09:42:29] [RadarAPI]: arl.selectRadarMode(0)
[09:42:29] [RadarAPI]: Status: Passed
[09:42:29] Matlab Runtime Engine is installed
[09:42:29] [RadarAPI]: Starting Matlab Engine..
[09:42:43] [RadarAPI]: Matlab Engine Started!
[09:42:45] [RadarAPI]: arl.selectCascadeMode(0)
[09:42:45] [RadarAPI]: Status: Passed
[09:42:45] [RadarAPI]: arl.LoadSettings('C:\Users\admin\AppData\Roaming\RSTD\arlgui.ini')
[09:42:45] TESTING = false
[09:42:45] RstdNet: Port 2777: Listening..
[09:42:45]
[09:42:45] ***Script completed successfully.***
[09:43:18] [RadarAPI]: Opening Gpio Control Port()
[09:43:18] [RadarAPI]: Status: Passed
[09:43:19] [RadarAPI]: Opening Board Control Port()
[09:43:19] [RadarAPI]: Status: Passed
[09:43:20] [RadarAPI]: arl.FullReset()
[09:43:20] [RadarAPI]: Status: Passed
[09:43:21] [RadarAPI]: Closing Board Control Port()
[09:43:21] [RadarAPI]: Status: Passed
[09:43:21] [RadarAPI]: Closing Gpio Control Port()
[09:43:21] [RadarAPI]: Status: Passed
[09:43:21] [RadarAPI]: arl.SOPControl(2)
[09:43:21] [RadarAPI]: Status: Passed
```

Board Control

Reset Control
Reset
Set (1)

SOP Mode controlled via jumper on EVM

RS232 Operations
COM Port: COM11
Baud Rate: 115200
Connect (2)

Operating Frequency
 60 GHz
 77 GHz

Device Variant
 XWR12xx
 XWR14xx
 XWR16xx
 xWR6843
 xWR1843

No. of Devices Detected: 1
FTDI Connectivity Status: **Connected**
RS232 Connectivity Status: **Disconnected**
SPI Connectivity Status: **Disconnected**
Device Status:
Die Id:
BSS firmware version:
BSS Patch firmware ver:
MSS firmware version:
MSS Patch firmware ver:
GUI Version: **2.1.1.0**
Radar Link Version: **2.0.9.0 (31/07/19)**
Post Proc Version: **4.86**

Files

BSS FW: C:\a\mmwave_studio_02_01_01_00\rf_eval_firmware\radarss\xwr68xx_radarss.bin ... Load (3)

MSS FW: C:\a\mmwave_studio_02_01_01_00\rf_eval_firmware\masterss\xwr68xx_masterss.bir ... Load (4)

Config File: ... Load

SPI Operations
SPI Connect (5)
RF Power-up (6)

```
[09:48:17] [RadarAPI]: ar1.Connect(11,115200,1000)
[09:48:19] [RadarAPI]: Error: Connection failed: Calling_ConnectTarget returned 3
[09:48:19] [RadarAPI]: ar1.Calling_IsConnected()
[09:48:19] [RadarAPI]: ar1.SaveSettings('C:\Users\admin\AppData\Roaming\RSTD\arlgui.ini')
```

Files

BSS FW: C:\a\mmwave_studio_02_01_01_00\rf_eval_firmware\radarss\xwr68xx_radarss.bin ... Load (3)

MSS FW: C:\a\mmwave_studio_02_01_01_00\rf_eval_firmware\masterss\xwr68xx_masterss.bir ... Load (4)

Config File: ... Load

SPI Operations
SPI Connect (5)
RF Power-up (6)

```
[09:48:51] [RadarAPI]: ar1.DownloadBSSFw("C:\\a\\mmwave_studio_02_01_01_00\\rf_eval_firmware\\radarss\\xwr68xx_radarss.bin")
[09:48:51] [RadarAPI]: Error: Download FW failed with error -1
```

Files

BSS FW: C:\a\mmwave_studio_02_01_01_00\rf_eval_firmware\radarss\xwr68xx_radarss.bin ... Load (3)

MSS FW: C:\a\mmwave_studio_02_01_01_00\rf_eval_firmware\masterss\xwr68xx_masterss.bir ... Load (4)

Config File: ... Load

SPI Operations
SPI Connect (5)
RF Power-up (6)

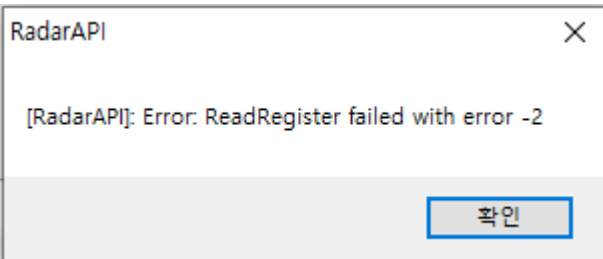
```
[09:49:36] [RadarAPI]: ar1.DownloadMSSFw("C:\\a\\mmwave_studio_02_01_01_00\\rf_eval_firmware\\masterss\\xwr68xx_masterss.bin")
[09:49:36] [RadarAPI]: Error: Download FW failed with error -1
```

SPI Operations

SPI Connect (5)

RF Power-up (6)

```
[09:50:27] [RadarAPI]: ar1.PowerOn(0, 1000, 0, 0)
[09:50:27] Status: Failed, Error Type: RESP TIMEOUT
[09:50:31] MSS Power Up async event was not received!
```



```
[09:51:42] [RadarAPI]: Error: ReadRegister failed with error -2
[09:51:51] [RadarAPI]: Error: ReadRegister failed with error -2
[09:51:53] [RadarAPI]: Error: ReadRegister failed with error -2
[09:51:54] [RadarAPI]: Error: ReadRegister failed with error -2
```

4번 발생

Connection StaticConfig DataConfig TestSource SensorConfig IntCh

Static Configuration

Basic Configuration

Channel Config

Tx Channel Tx0 Tx1 Tx2

Rx Channel Rx0 Rx1 Rx2 Rx3

Cascading Mode Single Chip

CasCading PinOut Cfg

ClkOut Master Dis SyncOut Master Dis

ClkOut Slave Ena SyncOut Slave Ena

INTLO Master Ena OSCClkOut Master Dis

ADC Config

Bits 16

Full Scale Reduction Factor 0

Format Complex1x

IQ Swap IFirst

Set

```
[09:53:20] [RadarAPI]: ar1.ChanNAdcConfig(1, 1, 1, 1, 1, 1, 1, 2, 1, 0)
[09:53:20] Status: Failed, Error Type: INVALID INPUT
```

Advanced Configuration

RF LDO Bypass

RF LDO Bypass Enable

PALDO I/P Disable

Supply IR Drop 0%

IO Supply 3.3 Set

LP Mode

LP ADC Mode RegularADC

Set

```
[09:54:27] [RadarAPI]: ar1.LPModConfig(0, 0)
[09:54:27] [RadarAPI]: Status: Failed, Error Type: INVALID INPUT
[09:54:27] [RadarAPI]: Error Occurred in Port open close
```

Radar Miscellaneous Control

Per Chirp Phase Shifter En

Set

RF Init Done

```
[09:55:29] [RadarAPI]: ar1.RfInit()
[09:55:29] [RadarAPI]: Status: Failed, Error Type: INVALID INPUT
```

MSSMon DynamicChirpCfg ClockOutCfg CalibDataCfg Import_Export

Connection StaticConfig DataConfig TestSource SensorConfig IntChirpBlkCtlCfg RegOp ContStream

Data Configuration

Data Path Configuration

Data Path	LVDS	Virtual Channel No	CQ Cfg	16 Bit
Packet 0	ADC_ONLY	0	CQ0TransSize (16bit)	132
Packet 1	Suppress Pacl	0	CQ1TransSize (16bit)	132
			CQ2TransSize (16bit)	72

Set

```
[09:56:27] [RadarAPI]: ar1.DataPathConfig(513, 1216644097, 0)
[09:56:27] Status: Failed, Error Type: INVALID INPUT
```

Clock Configuration

Lane Clock: DDR Clock

Data Rate: 600 Mbps

Set

```
[09:57:13] [RadarAPI]: ar1.LvdsClkConfig(1, 1)
[09:57:13] Status: Failed, Error Type: INVALID INPUT
```

LVDS Lane Configuration		CSI2 Lane Configuration			
Lane Format	Format 0	Lane0 Position	Lane0 Polarity	Lane1 Position	Lane1 Polarity
Lane Config	<input checked="" type="checkbox"/> Lane1 <input checked="" type="checkbox"/> Lane2	1	<input type="checkbox"/> +/- Pin Order	2	<input type="checkbox"/> +/- Pin Order
	<input type="checkbox"/> Lane3 <input type="checkbox"/> Lane4	Lane2 Position	Lane2 Polarity	Lane3 Position	Lane3 Polarity
<input checked="" type="checkbox"/> MSB First	<input type="checkbox"/> CRC	4	<input type="checkbox"/> +/- Pin Order	5	<input type="checkbox"/> +/- Pin Order
<input type="checkbox"/> Packet End Pulse		Clock Position	Clock Polarity		
		3	<input type="checkbox"/> +/- Pin Order		

Set

```
[09:57:51] [RadarAPI]: arl.LVDSLaneConfig(0, 1, 1, 0, 0, 1, 0, 0)
[09:57:51] Status: Failed, Error Type: INVALID INPUT
```