

TLKCore Reference Guide

Version 0.1.1

20230601

Prerequisite

1. About TLKCore

- a. Supported Python version: 3.6~3.8
- b. Python dependency
 - pip install -r requirements.txt
- c. Place the calibration file such as "D2152E040-28_28GHz.csv" into "TLKCore/files/"
- d. Please refer to public enums from "TLKCore/lib/TMYPublic.py"
 - RFMode for switch TX/RX mode
 - RetCode to see what happened while process function
 - All data structure of return function
- e. All return values follow the below struct:
 - RetCode: Enumeration list in TMYPublic.py
 - RetMsg: String type, shows message if not RetCode.OK
 - RetData: Returns data in function if RetCode.OK

2. Document Changelist

Date	Doc Version	Change list	Changed by
2022/3/24	∨0.0.1	First edition	Alin Su
2022/4/1	v0.0.2	Add getBeamGainList getBeamPhaseList UD series	Alin Su
2022/4/20	v0.0.3	Add getFastParallelMode setFastParallelMode getBeamIdStorage getBeamPattern	Alin Su

		● setBeamPattern	
2022/4/22	v0.0.4	Change return type	Alin Su
2022/4/27	∨0.0.5	BBox series support	Alin Su
2022/5/6	v0.0.6	Add	Alin Su
2022/5/12	v0.0.7	TLKCore v0.0.8 Add ■ getRecommendLO	Alin Su
2022/6/14	v0.0.8	TLKCore v0.0.9 Add exportDevLog Change Description of getUDFreq	Alin Su
2022/7/28	∨0.0.9	TLKCore v1.0.1 Add • getDevTypeName Change • Return type description of q ueryTCEnable	Alin Su
2022/10/24	∨0.0.10	TLKCore v1.0.1.4 Add Device type description	Alin Su

		 Beam table supports channel configs Add all channel checking function Change Fix description of setRFMode Fix to the correct func name initDev from init Fix to the correct func name DelnitDev from initDev Fix to the correct func name reboot from Reboot Support getTemperatureAD C to BBox 5G series Disable support getUDFreq 	
2023/1/30	v0.1.0	TLKCore v1.1.0 Add Device type description Beam table supports chann el configs Add all channel checking f unction	Alin Su
2023/6/1	v0.1.1	TLKCore v1.1.1 Add ■ Add DevInterface: COMPOR T, USB or ALL for scanDevic es()	Alin Su

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TLKCore APIs

[All] scanDevices

Signature

string[] scanDevices(string sn, interface=DevInterface.LAN)

Description

Scan the active devices to obtain its information including SN, IP and device type.

Parameters

Declaration type	Description	Parameters
string	sn	"D2104L001-28"
DevInterface	interface, scanning interface, this enum referenced from lib/TMPu blic.py	DevInterface.LAN

Declaration type	Description	Values
string[]	Each device includes SN, IP and d evice type	["SN1, IP1, Device_Ty pe1", "SN2, IP2, Device_Ty pe2"]

[All] initDev

Signature

RetCode initDev(string sn)

Description

Initialize device mode and device settings

Parameters

Declaration type	Description	Parameters
string	sn	"D2104L001-28"

Returns

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[All] DelnitDev

Signature

RetCode DeInitDev(string sn)

Description

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Returns

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBox Series] checkCaliTableLocation

Signature

bool checkCaliTableLocation(string sn)

Description

Check if the calibration table exists or not with the specific sn.

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Declaration type	Description	Values
bool	Calibration table exists or not	True/False

[BBox Series] getFrequencyList

Signature

float[] getFrequencyList(string sn)

Description

Get supported frequency points list from calibration table with the specific sn

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Returns

Declaration type	Description	Values
float[]	frequency point(float) in list	[26.5,27,27.5,28]

[All] queryMAC

Signature

string queryMAC(string sn)

Description

Get Mac address from device with sn

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Returns

Declaration type	Description	Values
string	Ethernet MAC address	"00:D0:E2:11:22:33"

[All] queryTLKCoreVer

Signature

string queryTLKCoreVer()

Description

Get TLKCore version

Declaration type	Description	Values
string	TLKCore version	"0.0.1"

[All] queryFWVer

Signature

string queryFWVer(string sn)

Description

Get Device Firmware Version

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2014L001-28"

Returns

Declaration type	Description	Values
string	Device Firmware version	"v1.2.10"

[All] queryHWVer

Signature

string queryHWVer(string sn)

Description

Get BBox/UDBox hardware version.

Parameters

Declaration type	Description	Parameters
string	Device SN	"UD-BS20343100-24"

Returns

Declaration type	Description	Values
string	Hardware version	"00G"

[BBox Series] queryCaliTableVer

Signature

string queryCaliTableVer(string sn)

Description

Get Calibration method version

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2014L001-28"

Returns

Declaration type	Description	Values
string	Calibration Method Version	"2.0.0"

[BBox Series] getOperatingFreq

Signature

float getOperatingFreq(string sn)

Description

Get current frequency point in calibration table with the specific sn

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Declaration type	Description	Values
float	Frequecny Point	27.5

[BBox Series] setOperatingFreq

Signature

RetCode setOperatingFreq(string sn, float freq)

Description

Load the calibration table with the specific SN and frequency point.

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
float	Frequency point	27.5

Returns

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBox Series] getDR

Signature

float[][] getDR(string sn)
float[] getDR(string sn, RFMode mode)

Description

Get current TX/RX dynamic range with the specific sn from calibration table

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
RFMode	TX/RX mode imported fro m TMYPublic	RFMode.TX

Returns

Declaration type	Description	Values
float[][]	[[
	[TX_MIN_GAIN, TX_MAX_GAIN], [RX_MIN_GAIN, RX_MAX_GAIN]]	[0, 15], [-2, 9.5]
float[]	[MIN_GAIN, MAX_GAIN] with mod	

[BBox 5G Series] getCOMDR

Signature

float[][] getCOMDR(string sn)

Description

Get current TX/RX board common-arm dynamic range with the specific sn from calibrati on table

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Returns

Declaration type	Description	Values
float[][]]	[
	[TX_COM_MIN_GAIN, TX_COM_MMAX_GAIN], [RX_COM_MIN_GAIN, RX_COM_MAX_GAIN]	[0, 4], [-1, 2]

[BBox 5G Series] getELEDR

Signature

float[][] getELEDR(string sn)

Description

Get current TX/RX board element-arm dynamic range with the specific sn from calibrati on table

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Returns

Declaration type	Description	Values
float[][]	[[
	[TX_ELEMENT_GAIN, TX_ELEM ENT_GAIN]	[3, 2]
]]

[BBox Series] getAAKitList

Signature

string[] getAAKitList(string sn)

Description

Get AAKit name string array from aakit table

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Declaration type	Description	Values
string[]	AAKIT NAME Array	[
		"TMYTEK_C2104", "TMYTEK_C2105",
]

[BBox Series] getAAKitInfo

Signature

dict getAAKitInfo(string sn)
dict getAAKitInfo(string sn, string kitName)

Description

Get AAKit information by aakit name and sn, default is the selected aakit name

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
string	AAKit Name	"TMYTEK_C2104"

Declaration type	Description	Values
dict	dict contains keys: • "DEV_TYPE" • "TYPE",	

"SPACING","STEERING_H",	
 "STEERING_V", "OFFSET_TX", "OFFSET_RX",	

[BBox Series] setAAKitInfo

Signature

Description

Set **customized** AAKit information with its parameters

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
string	AAKit Name	"TMYTEK_C2104"
float[]	Spacing	[5,5]
float[]	Steering_H	[-45,45]
float[]	Steering_V	[0,0]
int[]	TX offset	[0,0,0,0]

int[]	RX offset	[0,0,0,0]

Returns

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBox Series] deleteAAKitInfo

Signature

RetCode deleteAAKitInfo(string sn, string kitName)

Description

Delete **customized** AAKit information by aakitname and sn

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
string	AAKit Name	"TMYTEK_C2104"

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBox Series] saveAAKitFile

Signature

RetCode saveAAKitFile(string sn, string kitName)

Description

Save customized AAkit file with AAKit name

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
string	AAKit Name	"TMYTEK_C2104"

Returns

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBox Series] selectAAKit

Signature

RetCode selectAAKit(string sn, string AAKitName)

Description

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
string	AAKitName	"TMYTEK_C2104" or "" to remove

Returns

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBox Series] getRFMode

Signature

RFMode getRFMode(string sn)

Description

Get Device Operating Mode

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Declaration type	Description	Values
RFMode	Imported from TMYPublic	RFMode.TX, RFMod e.RX

[BBox Series] setRFMode

Signature

retCode setRFMode(string sn, RFMode mode)

Description

Set Device operating mode

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
RFMode	Imported from TMYPublic	RFMode.TX, RFMod e.RX

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBox 5G Series] getFastParallelMode

Signature

bool getFastParallelMode(string sn)

Description

Get fast parallel mode and external SPI status

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Returns

Declaration type	Description	Values
bool	Fast parallel mode and external S	True/False
	PI enable/disable	

[BBox 5G Series] setFastParallelMode

Signature

RetCode setFastParallelMode(string sn, bool en)

Description

Set fast parallel mode and external SPI enable or not

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
bool	Enable	True , False

Returns

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBox Series] switchChannel

Signature

string switchChannel(string sn, int channel, bool disable)

Description

Disable the specific channel power with device sn or not

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
int	Channel number	1 (start value)
bool	disable or not	True(Disable),

	False(Enable)
	,

Returns

Declaration type	Param Description	Values
RetCode	OK, ERROR,etc	

[BBox Series] getChannelSwitch

Signature

int[][] getChannelSwitch(string sn, RFMode mode)

Description

Read all channel disable/enable settings by the specific mode

Note: RFMode mode will be deprecated

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
RFMode	TX/RX Mode	

Declaration type	Description	Values
int[][]	Disable settings for all channel	[

	[0,0,0,1]
]

[BBox Series] setChannelGainPhase

Signature

string setChannelGainPhase(string sn, int channel, float db, int deg)

Description

Set Gain and Phase setting in the specific channel

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
int	Channel number	1 (start value)
float	Gain db	in Dynamic range
int	Phase deg	0 - 360

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBox Series] setIcChannelGain

Signature

RetCode setAllChannelGain(string sn, int board, float[] ch_db)

Description

Set four channel Gain settings in the specific board

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
int	Board number	1 (start value)
float[]	a list for all channel gain s ettings	[3.5, 2, 1.5, 2]

Returns

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBox Series] setBeamAngle

Signature

RetCode setBeamAngle(string sn, float db, int theta, int phi)

Description

Set the specific beam angle with (db, theta, phi) for device with sn

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
float	Gain Settings	Dynamic range
int	Theta	AAkit spacing
int	Phi	0 - 359

Returns

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBox Series] getBeamGainList

Signature

float[][] getBeamGainList(string sn)

Description

Read all channel gain settings with current mode

Parameters

Declaration type	Description	Parameters
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string	Device SN	"D2104L001-28"
St9	2 0 1 0 0 1 1	22.0.200. 20

Returns

Declaration type	Description	Values
float[][]	All channel gain settings]
		[3.5,4,3.5,4]
		1

[BBox Series] getBeamPhaseList

Signature

int[][] getBeamPhaseList(string sn)

Description

Read all channel phase settings with current mode

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Declaration type	Description	Values
int[,]	All channel phase settings	[

	[45,60,75.90]
]

[BBox Series] queryStaticIP

Signature

string queryStaticIP(string sn)

Description

Get device static IP settings

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Returns

Declaration type	Description	Values
string	Static IP address	"192.168.100.111"

[All] setStaticIP

Signature

RetCode setStaticIP(string sn, string ip)

Description

Set device static IPsettings

Parameters

Declaration type	Description	Parameters
string	Static IP settings	"192.168.100.111"
string	Device SN	"D2104L001-28"

Returns

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBox Series] reboot

Signature

RetCode reboot(string sn)

Description

Reboot device

Parameters

Declaration type	Description	Parameters
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string	Device SN	"D2104L001-28"

Returns

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBox Series] queryTCEnable

Signature

void queryTCEnable(string sn)

Description

Get dynamic temperature compensation status

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Declaration type	Description	Values
int	Auto temperature compensation enabled or not.	0: Disable 1: Enable

[BBox Series] queryTCConfig

Signature

void queryTCConfig(string sn)

Description

Get dynamic temperature compensation status

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Returns

Declaration type	Description	Values
dict	TC config with dict format	N/A

[BBox 5G Series] getBeamIdStorage

Signature

int getBeamIdStorage(string sn)

Description

Get BeamId storage limit for each RF mode

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Returns

Declaration type	Description	Values
int	Beam storage limit	64 or 512etc

[BBox 5G Series] getBeamPattern

Signature

string getBeamPattern(string sn, int beamId, RFMode mode)

Description

Get Beam Pattern config by Beamld

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
RFMode	mode	RFMode.TX/RX
int	BeamId	1 - limit of beamld storage ref. getBeamldStorage()

Declaration type	Description	Values
string	BeamPattern in json format	"{'beamId': 64, 'mod
		e': 1, 'db': 12.0, 'thet
		a': 0, 'phi': 0, 'channe
		l_switch': [0, 0, 0, 0,
		0, 0, 0, 0, 0, 0, 0, 0,
		0, 0, 0, 0]}"

[BBox 5G Series] setBeamPattern

Signature

 $\label{eq:RetCode} RetCode \ setBeamPattern(string \ sn, \ RFMode \ mode, \ int \ beamId, \ float \ db, \ int \ theta, \ int \ ph$ i)

Description

Set device beam pattern with beamld, mode, db, theta and phi

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
RFMode	mode	RFMode.TX/RX
int	beamId	1 - limit of beamld storage ref. getBeamldStorage()
float	db(In dynamic range)	7.5
int	theta	15
int	phi	0-359

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBox 5G Series] getTemperatureADC

Signature

int[] getTemperatureADC(string sn)

Description

Get temperature adc value per board from device

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

Returns

Declaration type	Description	Values
int[]	Board ADC	0 - 50

[BBoard Series] setTCConfig

Signature

RetCode setTCConfig(string sn, int[] TC_Config)

Description

Set temperature compensation parameters

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
int[] as list	TC_Config: 1. TX_C 2. TX_Q 3. RX_C 4. RX_Q	range: 0 - 31

Returns

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBoard Series] setChannelGainStep

Signature

RetCode setChannelGainStep(string sn, int channel, int gain_step,)

Description

Set the specific channel gain step

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"

int	Channel number	1 (start number)
int	Gain Step	0 - 15

Returns

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBoard Series] setComGainStep

Signature

string sn setComGainStep(string sn, int board, int gain_step)

Description

Set the specific board common-arm gain with the common-arm gain step

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
int	Com gain Step	0 - 15

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[BBoard Series] setChannelPhaseStep

Signature

RetCode setChannelPhaseStep(string sn, int channel, int phase_step)

Description

Set the specific channel phase step

Parameters

Declaration type	Description	Parameters
string	Device SN	"D2104L001-28"
int	Channel number	1 (start number)
int	Phase Step	0 - 63

Returns

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[All] queryHWVer

Signature

string queryHWVer(string sn)

Description

Get BBox/UDBox hardware version.

Parameters

Declaration type	Description	Parameters
string	Device SN	"UD-BS20343100-24"

Declaration type	Description	Values
string	Hardware version	"00G"

[UDBox] getUDDeltaFreq

Signature

int getUDDeltaFreq(string sn, int freq_ud, int freq_rf, int freq_if, int bandwidth)

Description

Get the delta frequency between LO & IF from [SN].csv, please use wide range frequenc y for better performance in the **loopback** condition. This function will be deprecated after UD 00E/00F phased out.

Parameters

Declaration type	Description	Parameters
string	Device SN	"UD-BS20343100-24"

Returns

Declaration type	Description	Values
int	Delta freq	

[UDBox] getHarmonic

Signature

bool getHarmonic(string sn, int freq_ud, int freq_rf, int freq_if, int bandwidth)

Description

Check UDBox Frequency affected by harmonic (KHz), not check equation

Parameters

Declaration type	Description	Parameters
string	Device SN	"UD-BS20343100-24"

Returns

Declaration type	Description	Values
bool	True: harmonicFalse: not harmonic	

[UDBox] getRecommendLO

Signature

dict getRecommendLO(string sn, int freq_rf, int freq_if, int bandwidth)

Description

Get supported and recommend LO frequencies from UDBox RF & IF frequency.

Parameters

Declaration type	Description	Parameters
string	Device SN	"UD-BS20343100-24"
int	UDBox RF frequency (KHz)	
int	UDBox IF frequency (KHz)	

Returns

Declaration type	Description	Values
dict	dict contains keys:	dict contains values
	● "USBLo"	from keys
	● "LSBLo",	
	"Recommend",	

[UDBox] setUDFreq

Signature

RetCode setUDFreq(string sn, int freq_ud, int freq_rf, int freq_if, int bandwidth)

Description

Set UDBox Frequency.

Parameters

Declaration type	Description	Parameters
string	Device SN	"UD-BS20343100-24"
int	UDBox LO frequency (KHz)	TBD
int	UDBox RF frequency (KHz)	TBD
int	UDBox IF frequency (KHz)	TBD
int	UDBox bandwidth (KHz)	TBD

Declaration type	Description	Values
RetCode	OK, ERROR,etc	

[UDBox] getUDFreq

Signature

dict getUDFreq(string sn)

Description

Set UDBox Frequency.

Parameters

Declaration type	Description	Parameters
string	Device SN	"UD-BS20343100-24"

Declaration type	Description	Values
dict	dict contains keys: "UDFreq" "RFFreq", "IFFreq",	Gets value 0 from di ct if old UD FW ver

[UDBox] getUDState

Signature

dict getUDState(string sn)
int getUDState(string sn, UDState.(Your item))

Description

UDBox current status.

Parameters

Declaration type	Description	Parameters
string	Device SN	"UD-BS20343100-24"

Declaration type	Description	Values
PLO_LOCK	Lock status	0 - Unlock, 1 - Lock
CH1	CH1 enable	0 - Disable, 1 - Enable
CH2	CH2 enable	0 - Disable, 1 - Enable
OUT_10M	10MHz output	0 - Disable, 1 - Enable
OUT_100M	100MHz output	0 - Disable, 1 - Enable
SOURCE_100M	100MHz source	0 - Internal, 1 - Extern al
LED_100M	100MHz Led status	0 - Off, 1 - White, 2 - Blue
PWR_5V	5V output	0 - Disable, 1 - Enable

PWR_9V 9V output 0 - Disable, 1 - Enable
--

[UDBox] setUDState

Signature

dict setUDState(string sn, dict state)
dict setUDState(string sn, int state, UDState.(Your item))

Description

Set UDBox status.

Parameters

Declaration type	Description	Parameters
string	Device SN	"UD-BS20343100-24"
PLO_LOCK	Lock status	1
CH1	CH1 enable	0 - Disable, 1 - Enable
CH2	CH2 enable	0 - Disable, 1 - Enable
OUT_10M	10MHz output	0 - Disable, 1 - Enable
OUT_100M	100MHz output	0 - Disable, 1 - Enable
SOURCE_100M	100MHz source	0 - Internal, 1 - External
LED_100M	Reserved	N/A
PWR_5V	5V output	0 - Disable, 1 - Enable
PWR_9V	9V output	0 - Disable, 1 - Enable

Declaration type	Description	Values
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PLO_LOCK	Lock status	0 - Unlock, 1 - Lock
CH1	CH1 enable	0 - Disable, 1 - Enable
CH2	CH2 enable	0 - Disable, 1 - Enable
OUT_10M	10MHz output	0 - Disable, 1 - Enable
OUT_100M	100MHz output	0 - Disable, 1 - Enable
SOURCE_100M	100MHz source	0 - Internal, 1 - Extern al
LED_100M	100MHz Led status	0 - Off, 1 - White, 2 - Blue
PWR_5V	5V output	0 - Disable, 1 - Enable
PWR_9V	9V output	0 - Disable, 1 - Enable