



MPI Differences Between Hi3516D V300/Hi3516A V300 and Hi3519A V100

Issue **01**

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About This Document

Purpose

This document describes the differences between the media processing platform programming interfaces (MPIs) of Hi3516D V300, Hi3516A V300, and Hi3519A V100, including the modified MPIs and new MPIs. With this document, engineers that develop products based on Hi3519A V100 can quickly understand the major differences between Hi3516D V300, Hi3516A V300, and Hi3519A V100, and therefore quickly develop products based on Hi3516D V300 and Hi3516A V300.

Related Version

The following table lists the product version related to this document.

Product Name	Version
Hi3516D	V300
Hi3516A	V300

Intended Audience

This document is intended for:

- Technical support engineers
- Software development engineers

Change History

Changes between document issues are cumulative. The latest document issue contains all changes made in previous issues.

Issue 01 (2019-09-15)

This issue is the first official release, which incorporates the following changes:

Sections 2.4, 2.5, 2.9, 2.12, and 2.23 are modified.



Issue 00B05 (2019-02-15)

This issue is the fifth draft release, which incorporates the following changes:

The description of Hi3516A V300 is added.

Issue 00B04 (2019-01-15)

This issue is the fourth draft release, which incorporates the following changes:

Sections 2.4, 2.5, 2.6, 2.8, and 2.23 are modified.

Issue 00B03 (2018-11-20)

This issue is the third draft release, which incorporates the following changes:

Section 2.5 is modified.

Issue 00B02 (2018-10-15)

This issue is the second draft release, which incorporates the following changes:

Sections 2.4, 2.9, and 2.5 are modified.

Issue 00B01 (2018-07-15)

This issue is the first draft release.



Contents

About This Document.....	i
1 Introduction.....	1
2 Module	2
2.1 SYS	2
2.2 VB	2
2.3 MIPI	2
2.4 VI	3
2.5 VPSS	5
2.6 VO	6
2.7 VGS.....	7
2.8 VENC.....	7
2.9 VDEC.....	8
2.10 REGION.....	8
2.11 ACODEC.....	9
2.12 AI.....	9
2.13 AENC	9
2.14 ADEC	9
2.15 AO	9
2.16 FB.....	9
2.17 TDE.....	9
2.18 IVS	10
2.19 IVE.....	10
2.20 NNIE	11
2.21 HDMI	11
2.22 DIS	12
2.23 GDC	12
2.24 CIPHER	13



1 Introduction

This document describes the differences between the MPIs of Hi3516D V300, Hi3516A V300, and Hi3519A V100.

The differences are classified into the following types: MPI function name difference (addition, deletion, and modification), public data structure name difference (addition, deletion, and modification), MPI function behavior difference, and public data structure parameter range difference. The corresponding differences include but are not limited to the following: MPI functions and public data structures (such as structure, enumeration, and union). This document briefly describes the differences between various subjects and the causes of the differences. For details about the MPIs and scenes, see the *HiMPP V4.0 Media Processing Software Development Reference*.



NOTE

Unless otherwise specified, the contents of the Hi3516D V300 also apply to Hi3516A V300.



2 Module

2.1 SYS

None

2.2 VB

None

2.3 MIPI

Public Data Structure	Differences in Parameter Range
combo_dev_attr_t	<ul style="list-style-type: none">Value range of devno: [0, 1] for Hi3516D V300 and [0, 4] for Hi3519A V100input_mode: Hi3516D V300 does not support scalable low-voltage signaling (SLVS), but Hi3519A V100 supports it.data_rate: Hi3516D V300 does not support two pixels per cycle, but Hi3519A V100 supports it.
lane_divide_mode_t	lane_divide_mode_t : Hi3516D V300 supports only two modes, whereas Hi3519A V100 supports seven modes.
mipi_dev_attr_t	MIPI_LANE_NUM: <ul style="list-style-type: none">Hi3516D V300: 4Hi3519A V100: 8
lvds_dev_attr_t	LVDS_LANE_NUM: <ul style="list-style-type: none">Hi3516D V300: 4Hi3519A V100: 12
SNS_MAX_CLK_SOURCE_NUM	SNS_MAX_CLK_SOURCE_NUM: <ul style="list-style-type: none">Hi3516D V300: 2



Public Data Structure	Differences in Parameter Range
	<ul style="list-style-type: none">Hi3519A V100: 3
SNS_MAX_RST_SOURCE_NUM	SNS_MAX_RST_SOURCE_NUM: <ul style="list-style-type: none">Hi3516D V300: 2Hi3519A V100: 3

Interface Function	Difference Description
HI_MIPI_RESET_SLVS	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MIPI_UNRESET_SLVS	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MIPI_ENABLE_SLVS_CLOCK	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MIPI_DISABLE_SLVS_CLOCK	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.

2.4 VI

Public Data Structure	Differences in Parameter Range
VI_DEV_ATTR_S	<ul style="list-style-type: none">stBasAttr: Hi3516D V300 does not support bayer scaling (BAS), but Hi3519A V100 supports it.enInputMode: Hi3516D V300 does not support SLVS, but Hi3519A V100 supports it.enDataRate: Hi3516D V300 does not support two pixels per cycle, whereas Hi3519A V100 supports it.
ViDev	Hi3516D V300 supports up to two VI devices whereas Hi3519A V100 supports up to five VI devices.
VI_PIPE_ATTR_S	<ul style="list-style-type: none">bNrEn: Hi3516D V300 supports NR configuration (switch of level 0 of 3DNR), whereas Hi3519A V100 does not.enCompressMode: In offline WDR mode, Hi3516D V300 supports frame compression, whereas Hi3519A V100 does not.
ViPipe	Hi3516D V300 supports up to four ViPipe devices whereas Hi3519A V100 supports up to six ViPipe devices.



Public Data Structure	Differences in Parameter Range
ViChn	Hi3516D V300 supports only one ViChn device whereas Hi3519A V100 supports up to two ViChn devices.
VI_PIPE_FRAME_SOURCE_E	VI_PIPE_FRAME_SOURCE_E: Hi3516D V300 supports the import of raw data only from the BE, whereas Hi3519A V100 supports the import of raw data from the BE and FE.

Interface Function	Difference Description
HI_MPI_VI_SetPipeNRXParam	This interface function is supported by Hi3516D V300 instead of Hi3519A V100.
HI_MPI_VI_GetPipeNRXParam	This interface function is supported by Hi3516D V300 instead of Hi3519A V100.
HI_MPI_VI_SetPipeVCNumber	Hi3516D V300 supports VCNumber only in RAW data format. Hi3519A V100 supports VCNumber in RAW and YUV data formats.
HI_MPI_VI_GetPipeVCNumber	Hi3516D V300 supports obtaining of VCNumber in RAW and YUV data formats. Hi3519A V100 supports obtaining of VCNumber only in RAW data format.
HI_MPI_VI_SetChnEarlyInterrupt	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_VI_GetChnEarlyInterrupt	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_VI_SetStitchGrpAttr	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_VI_GetStitchGrpAttr	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_VI_SetPipeFisheyeConfig	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_VI_GetPipeFisheyeConfig	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_VI_SetPipeBNRRawDumpAttr	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_VI_GetPipeBNRRawDumpAttr	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_VI_GetPipeBNRRaw	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_VI_ReleasePipeBNRRaw	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.



2.5 VPSS

New Data Structure	Difference Description
VPSS_NRX_PARAM_V2_S	This structure is supported by Hi3516D V300 instead of Hi3519A V100.

Public Data Structure	Differences in Parameter Range
VPSS_GRP_NRX_PARAM_S	VPSS_NRX_PARAM_V2_S: This structure is supported by Hi3516D V300 instead of Hi3519A V100.
VPSS_CHN_MODE_E	VPSS_CHN_MODE_AUTO: This structure is supported by Hi3519A V100 instead of Hi3516D V300.

Interface Function	Difference Description
<ul style="list-style-type: none">HI_MPI_VPSS_SetGrpFisheyeConfigHI_MPI_VPSS_GetGrpFisheyeConfig	These interface functions are supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VPSS_EnableBackupFrameHI_MPI_VPSS_DisableBackupFrame	These interface functions are supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VPSS_SetGrpDelayHI_MPI_VPSS_GetGrpDelay	These interface functions are supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VPSS_EnableUserFrameRateCtrlHI_MPI_VPSS_DisableUserFrameRateCtrl	These interface functions are supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VPSS_SetGrpSharpenHI_MPI_VPSS_GetGrpSharpen	These interface functions are supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VPSS_SetChnAlignHI_MPI_VPSS_GetChnAlign	These interface functions are supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VPSS_AttachVbPoolHI_MPI_VPSS_DetachVbPool	These interface functions are supported by Hi3519A V100 instead of Hi3516D V300.



2.6 VO

Public Data Structure	Differences in Parameter Range
VO_INTF_SYNC_E	The maximum timing supported by Hi3516D V300 is VO_OUTPUT_1920x1080_60 . The maximum timing supported by Hi3519A V100 is VO_OUTPUT_4096x2160_60 .

Interface Function	Difference Description
<ul style="list-style-type: none">HI_MPI_VO_SetWBCAttrHI_MPI_VO_GetWBCAttr	WBC is supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VO_SetWBCSourceHI_MPI_VO_GetWBCSource	WBC is supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VO_EnableWBCHI_MPI_VO_DisableWBC	WBC is supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VO_SetWBCModeHI_MPI_VO_GetWBCMode	WBC is supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VO_SetWBCDepthHI_MPI_VO_GetWBCDepth	WBC is supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VO_GetWBCFrameHI_MPI_VO_SetWBCFrame	WBC is supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VO_BindGraphicLayerHI_MPI_VO_UnBindGraphicLayer	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VO_SetVideoLayerPriorityHI_MPI_VO_GetVideoLayerPriority	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VO_SetVideoLayerPartitionModeHI_MPI_VO_GetVideoLayerPartitionMode	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VO_BatchBeginHI_MPI_VO_BatchEnd	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VO_SetVideoLayerBoundaryHI_MPI_VO_GetVideoLayerBoundary	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VO_BindVideoLayerHI_MPI_VO_UnBindVideoLayer	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VO_SetChnDisplayPosition	This interface function is supported by



Interface Function	Difference Description
<ul style="list-style-type: none">HI_MPI_VO_GetChnDisplayPosition	Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VO_SetChnBoundaryHI_MPI_VO_GetChnBoundary	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
<ul style="list-style-type: none">HI_MPI_VO_PauseChnHI_MPI_VO_ResumeChnHI_MPI_VO_StepChnHI_MPI_VO_RefreshChn	Hi3516D V300 does not support playback control and its related interfaces.
<ul style="list-style-type: none">HI_MPI_VO_SetVideoLayerDecompressHI_MPI_VO_GetVideoLayerDecompress	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.

2.7 VGS

Interface Function	Difference Description
HI_MPI_VGS_AddRotationTask	The input parameter enVideoFormat can be set to VIDEO_FORMAT_TILE_64x16 for Hi3519A V100, instead of for Hi3516D V300.

2.8 VENC

Public Data Structure	Differences in Parameter Range
VENC_GOP_BIPREDB_S	Defines the GOP attribute for B-frames. Hi3516D V300 does not support configuration of this data structure.
VENC_H265_TRANS_S	Defines the transformation and quantization attributes of an H.265 VENC channel. For Hi3516D V300, InterScalingList8X8 , IntraScalingList8X8 , InterScalingList16X16 , IntraScalingList16X16 , InterScalingList32X32 , and IntraScalingList32X32 support only no quantization table or the default quantization table.
VENC_ATTR_H264_S	bRcnRefShareBuf : Indicates whether to enable the frame saving mode. This parameter is supported by Hi3516D V300 instead of Hi3519A V100.
VENC_ATTR_H265_S	bRcnRefShareBuf : Indicates whether to enable



Public Data Structure	Differences in Parameter Range
	the frame saving mode. This parameter is supported by Hi3516D V300 instead of Hi3519A V100.

2.9 VDEC

Public Data Structure	Differences in Parameter Range
VDEC_MAX_CHN_NUM	Hi3516D V300: The value of VDEC_MAX_CHN_NUM is 16 . Hi3519A V100: The value of VDEC_MAX_CHN_NUM is 64 .
VDEC_CHN_ATTR_S	Hi3516D V300: The maximum value of u32PicWidth is 2688 , and the maximum value of u32PicHeight is 1944 . Hi3516A V300: The maximum value of u32PicWidth is 3840, and the maximum value of u32PicHeight is 2160. Hi3519A V100: The maximum values of u32PicWidth and u32PicHeight are 8192 .
VIDEO_DEC_MODE_E	Hi3516D V300: Supports the VIDEO_DEC_MODE_IP and VIDEO_DEC_MODE_I modes. Hi3519A V100: Supports the VIDEO_DEC_MODE_IPB, VIDEO_DEC_MODE_IP, and VIDEO_DEC_MODE_I modes.

2.10 REGION

Public Data Structure	Differences in Parameter Range
PIXEL_FORMAT_E	PIXEL_FORMAT_ARGB_2BPP : Defines a 2BPP type for the Overlay. This parameter is supported by Hi3516D V300 instead of Hi3519A V100.



2.11 ACODEC

None

2.12 AI

Public Data Structure	Differences in Parameter Range
AI_DEV_MAX_NUM	Hi3516D V300: The value of AI_DEV_MAX_NUM is 1 . Hi3519A V100: The value of AI_DEV_MAX_NUM is 2 .
AIO_MAX_CHN_NUM	Hi3516D V300: The value of AIO_MAX_CHN_NUM is 3 . Hi3519A V100: The value of AIO_MAX_CHN_NUM is 16 .
AI_MAX_CHN_NUM	Hi3516D V300: The value of AI_MAX_CHN_NUM is 2 . Hi3519A V100: The value of AI_MAX_CHN_NUM is 16 .

2.13 AENC

None

2.14 ADEC

None

2.15 AO

None

2.16 FB

None

2.17 TDE

None



2.18 IVS

None

2.19 IVE

New Data Structure	Difference Description
IVE_PSP_CTRL_S	This structure is supported by Hi3516D V300 instead of Hi3519A V100.
IVE_HOG_CTRL_S	This structure is supported by Hi3516D V300 instead of Hi3519A V100.
IVE_KCF_CTRL_S	This structure is supported by Hi3516D V300 instead of Hi3519A V100.

Interface Function	Difference Description
HI_MPI_IVE_Resize	Hi3516D V300 supports only the IVE_RESIZE_MODE_LINEAR mode.
HI_MPI_IVE_CNN_LoadModel	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_IVE_CNN_UnloadModel	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_IVE_CNN_Predict	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_IVE_CNN_GetResult	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_IVE_GMM	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_IVE_ANN_MLP_LoadModel	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_IVE_ANN_MLP_UnloadModel	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_IVE_ANN_MLP_Predict	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_IVE_SVM_LoadModel	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_IVE_SVM_UnloadModel	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_IVE_SVM_Predict	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.



Interface Function	Difference Description
HI_MPI_IVE_GradFg	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_IVE_MatchBgModel	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_IVE_UpdateBgModel	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.

New Interface Function	Difference Description
HI_MPI_IVE_PSP	This interface function is supported by Hi3516D V300 instead of Hi3519A V100.
HI_MPI_IVE_HOG	This interface function is supported by Hi3516D V300 instead of Hi3519A V100.
HI_MPI_IVE_KCF	This interface function is supported by Hi3516D V300 instead of Hi3519A V100.

2.20 NNIE

None

2.21 HDMI

Public Data Structure	Differences in Parameter Range
HI_HDMI_ATTR_S	<ul style="list-style-type: none">enVideoFmt: Hi3516D V300 does not support HI_HDMI_VIDEO_FMT_3840X2160P_50, HI_HDMI_VIDEO_FMT_3840X2160P_60, HI_HDMI_VIDEO_FMT_4096X2160P_24, HI_HDMI_VIDEO_FMT_4096X2160P_25, HI_HDMI_VIDEO_FMT_4096X2160P_30, HI_HDMI_VIDEO_FMT_4096X2160P_50, or HI_HDMI_VIDEO_FMT_4096X2160P_60, whereas Hi3519A V100 supports them.enVidOutMode: Hi3516D V300 does not support HI_HDMI_VIDEO_MODE_YCBCR420, but Hi3519A V100 supports it.
HI_HDMI_INFOFRAME_S stAVIInfoFrame	<ul style="list-style-type: none">enTimingMode: Hi3516D V300 does not support HI_HDMI_VIDEO_FMT_3840X2160P_50, HI_HDMI_VIDEO_FMT_3840X2160P_60,



Public Data Structure	Differences in Parameter Range
	<p>HI_HDMI_VIDEO_FMT_4096X2160P_50, or HI_HDMI_VIDEO_FMT_4096X2160P_60, whereas Hi3519A V100 supports them.</p> <ul style="list-style-type: none">• enColorSpace: Hi3516D V300 does not support HI_HDMI_VIDEO_MODE_YCBCR420, but Hi3519A V100 supports it.

Interface Function	Difference Description
HI_MPI_HDMI_SetModParam	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_HDMI_GetModParam	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.

2.22 DIS

Public Data Structure	Differences in Parameter Range
DIS_CONFIG_S	<ul style="list-style-type: none">• EnMotionLevel: DIS_MOTION_LEVEL_LOW is supported by Hi3519A V100 instead of Hi3516D V300.• u32FrameRate: The maximum value is 60 for Hi3516D V300 and 120 for Hi3519A V100.

2.23 GDC

Interface Function	Difference Description
HI_MPI_GDC_SetConfig	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.
HI_MPI_GDC_AddCorrectionTask HI_MPI_GDC_AddCorrectionExTask	This interface function is supported by Hi3519A V100 instead of Hi3516D V300.



2.24 CIPHER

Public Enumeration Type	Differences in Parameter Range
HI_UNF_CIPHER_WORK_MODE_E	<ul style="list-style-type: none">• HI_UNF_CIPHER_WORK_MODE_CCM: This operating mode is supported by Hi3519A V100 instead of Hi3516D V300.• HI_UNF_CIPHER_WORK_MODE_GCM: This operating mode is supported by Hi3519A V100 instead of Hi3516D V300.

Public Data Structure	Differences in Parameter Range
HI_UNF_CIPHER_CTRL_AES_S	enKeyLen: The AES hardware key of Hi3516D V300 supports three types of lengths: HI_UNF_CIPHER_KEY_AES_128BIT, HI_UNF_CIPHER_KEY_AES_192BIT, and HI_UNF_CIPHER_KEY_AES_256BIT. The AES hardware key of Hi3519A V100 supports HI_UNF_CIPHER_KEY_AES_128BIT.
HI_UNF_CIPHER_RSA_PUB_KEY_S	<ul style="list-style-type: none">• u16NLen: Hi3516D V300 does not support the key length of 3072 bits, but Hi3519A V100 supports it.• u16ELen: Hi3516D V300 does not support the key length of 3072 bits, but Hi3519A V100 supports it.
HI_UNF_CIPHER_RSA_PRI_KEY_S	<ul style="list-style-type: none">• u16NLen: Hi3516D V300 does not support the key length of 3072 bits, but Hi3519A V100 supports it.• u16ELen: Hi3516D V300 does not support the key length of 3072 bits, but Hi3519A V100 supports it.• u16DLen: Hi3516D V300 does not support the key length of 3072 bits, but Hi3519A V100 supports it.