

DekTec SDK

REVISION HISTORY

SDK

Aug 2023



DekTec SDK Revision History

The DekTec SDK for Linux requires GCC >7.5 and Linux kernel > 4.14.
Supported Visual Studio versions are: VS2017, VS2019 and VS2022

For support of other versions see Dec2022 SDK revision history.

Note: Dec2022 SDK does not support new DekTec adapters introduced in 2023 and later. Dec2022 SDK is a maintenance release to support older GCC and Visual Studio versions.

SDK version August 2023	
Versions	DTAPI: v6.1.0.215 Drivers: Dta v4.28.9.286, DtPcie v3.1.0.349, Dtu v4.15.4.92 DtBb2 v1.0.1.11 DtANw v3.5.13.44, DtPcieNw v1.0.0.55 DtapiService: v5.0.1.117
Changes	<p>New features:</p> <ul style="list-style-type: none"> • Support for DTA-2111B Multi-Standard Cable/Terrestrial Modulator for PCIe • Support for DTA-2178 firmware v2 (NTSC genlock signals can now be used to genlock fractional (U)HD outputs) • Support prepared for FFmpeg (https://www.dektec.com/products/SDK/ffmpeg/) • DTU-315/DTA-2116 Support for low-sample rates IQ output • DTU-331 added DVB-S2 CID support <p>Bug fixes:</p> <ul style="list-style-type: none"> • [Matrix API] trying to set 4 VPID's (one for each logical link in a 6G/12G signal) in DtMxAuxConfigSdi::m_Vpid resulted in a DTAPI_E_CONFIG_AUX_VPID error • DtapiDtHwFuncDesc2String() and DtapiDtDeviceDesc2String() did return undefined output string • DTU-331: DVB-S demodulation was not stable for some setups resulting in bit errors • DTU-331: Improvements on signal reception > 1GHz • DTA-2110: DtInpChannel::GetTsRateBps returned incorrect rate • DTA-2116 Invalid RF-Levels were reported in specific cases <p>Linux only changes:</p> <ul style="list-style-type: none"> • ABI 0 DTAPI deliverables added • Fedora 38 drivers did not build • Linker warning DTAPI64.o: requires executable stack was reported • DtapiService was not stopped correctly

SDK version June 2023	
Versions	DTAPI: v6.0.1.214 Drivers: Dta v4.28.9.286, DtPcie v3.0.0.345, Dtu v4.15.3.91 DtBb2 v1.0.0.10 DtaNw v3.5.13.44, DtPcieNw v1.0.0.55 DtapiService: v5.0.0.114
Changes	<p>New features:</p> <ul style="list-style-type: none"> • Support for DTA-2110 10GbE NIC for SMPTE 2110 • Support for DTU-331 Portable All-Standard RF Probe for USB-3 • [Matrix API] timestamp added signalling the transmit time of a frame to DtMxFrame • DTA-2139C: support for ATSC1.0 GetConstellationPoints() <p>Bug fixes:</p> <ul style="list-style-type: none"> • [Matrix API] SDI input with pixelformat DT_PXFMT_YUV420P2_8B did crash • [Matrix API] creation of a crashdump for an application sharing a port with others results in blocking of other applications sharing the same port • [Matrix API] Potential stop of generating callbacks when no SDI signal is present and PC is heavily overloaded • [MatrixAPI] not providing video in the callback, while in zero-copy mode, did result in a corrupt SDI output with spurious EAV/SAV/ADF sequences • [Matrix API] optimized multi-threading code to lower CPU overhead caused by Matrix API threads • DTA-2127: LinkMargin and EbN0 statistics were not supported for DVB-S • DTA-2127: measured RF level > 0 dBm and < -88 dBm were incorrect • DTA-2131: reception errors were seen on specific ATSC 1.0 streams • DTA-2131: the computed PLP bitrate in DtAtsc3PlpInfo was not correct for enhanced PLPs • DTA-2132: didn't lock to DVB-S with coderate 1/2 • DTA-2139C: DTAPI_STAT_PER was not implemented for ATSC • DTA-2139C: DtAdvDemod::OpenStream() was only supported for ATSC 3.0 • DTA-2172/74B/75/78: ASI-output data was corrupted when writing too much data • DTA-2172/74B/75/78: GetFifoLoad did return inaccurate FIFO-load when using TXONTIME transmit mode for Transport Streams • DTU-245B: driver did in some cases not update <p>Linux only changes:</p> <ul style="list-style-type: none"> • Parent device linked to Dta/DtPcie device • DtapiHwFuncScan did not finish in some cases