

Release Notes

last change: 2024-08-09

KK Library (Windows DLL, Linux SO)

Version	Date	Description
20.2.5	2024-08-09	Bug fixes FXE2 USB and network Support FXE2 firmware < 1.09
20.2.4	2024-07-30	added: Simulator generates NSZ measurements added: read FXE2 data from binary file
20.2.2	2024-05-24	DebugErrorLog added Bug fixes CAN Bug fixes FXE2: serial connection, multiple USB connections, reading data from device
20.1.4	2024-03-26	added: FXE2-PPI support Firmware 1.15 added: calculate CAN-ID depending on type added: support ARM controller with Linux
20.1.3	2023-12-04	Bug fix timestamp FXE2 Firmware 1.11
20.1.2	2023-12-02	Support FXE2 Firmware 1.11 Bug fixes FXE, FXE2 changed: FXE2 heart beat report 7EFF
20.1.1	2023-11-21	FXE2 support reference clock monitoring CAN: receive CAN heartbeats
20.1.0	2023-11-02	FXE2 support extended: report mode Phase difference commands PhaseDiffReset (0x0A), scrambler (0x50, 0x5E, 0x5F), device reset (0x0E) read and write NSZ calibration, FHR settings Recognise format errors and report them via 7F21 FXE2 heart beat report 7FFD serial connection string with baud rate FXE2 bug fixes phase reports, frequency reports
20.0.0	2023-09-06	added: support of FXE2 Bug fix network connection Bug fix serial connection Bug fix re-sync added: serial connection string with baud rate added: network connection string with host name (FXE2 only) added: error number CKK_DLL_Recovered (14) in Multi_GetReport
19.3.1	2023-01-04	added: Multi_GetDeviceStartState, Multi_SetSend7016 Bug fix TCP server IP Bug fix unexpected TCP disconnect Improvements firmware/FPGA upgrade

19.3.0	2022-10-09	Bug fix Linux GetHostAndIPs Multi_TcpAppData delivers server response TooManyUser message contains connected users via USB, network
19.2.3	2022-09-12	Bug fix close network connection Bug fix blocking I/O
19.2.2	2022-05-12	Bug fix demo data: negative values Bug fix Linux USB
19.2.1	2022-03-03	Bug fix close USB Bug fix Linux 32 bit versions
19.2.0	2021-12-20	added: Multi_OpenTcpLogType, Multi_TcpAppData Bug fix TakeLogData: LogType=0..7
19.1.2	2021-11-18	Support of FXE High Resolution Data: Multi_ReadFHRData, Multi_SetFHRData Bug fix long-lasting TCP/IP connection (reconnect every day) Bug fix Multiple-USB: reading flash
19.1.0	2021-08-12	Bug fix Statistic Integer-Overflow-Error
19.0.3	2021-07-01	Bug fix timestamp and measurement check Multiple-USB: Reconnect with Data lost
19.0.2	2021-05-28	Mark invalid NSZ channels with -9.99 Ignore first invalid NSZ report Avoid big phase overflows Network: data lost message when reconnect Bug fixes: ping added: Multi_OpenTcpLogTime
19.0.1	2021-04-13	Bug fixes: open different devices, Windows Shutdown
18.2.4	2021-03-15	TCP-Log PhasePredecessor, UserLog1, UserLog2 added Accelerating string dispatch to TCP server
18.2.3	2021-01-11	Bug fixes: Close USB if firmware version < 64
18.2.2	2020-12-17	Bug fixes: multiple USB user, negative calibration values support firmware version 64
18.2	2020-11-06	reject invalid commands multiple USB user (Firmware 63)
18.1.10	2020-10-01	added: NSZ support for devices with NSZ cards only, NSZ calibration Multi_SetNSZCalibrationData, Multi_GetFirmwareVersion, Multi_HasFRam, Multi_RemoteLogin
18.1.9	2020-07-13	Support for NSZ devices No PCAN devices installed -> no error message Test data: option WAIT_INTERVAL added Bug fixes: network connection, reference clock , Python 64 bit version
18.1.4	2020-03-04	bug fixes simulated data
18.1.3	2020-02-14	added: reference clock error from device, bug fixes: DNSZ messages, CAN connections, enumerate PCAN-USB, Flag = 0x04, Multi_SetNSZ: value 0 for automatic NSZ format detection
18.1.2	2019-11-11	message 7F21 added: USB read error (USB frames lost)
18.1.1	2019-09-25	DebugLog with last 1000 lines after Exception, get device serial number via network
18.1.1	2019-06-24	bug fixes linux: enumerating serial ports, multiple source connections Windows: check ip address via ping multiple CAN user
18.1.0	2019-02-21	new connection type simulated data

18.0.3	2018-11-22	bug fixes memory leak (since 16.09)
18.0.0	1899-12-30	added: multiple source connections
17.01	2018-05-17	added: KK_GetPendingCmdsCount
16.10	2017-12-28	support for 130 MHz devices functions added for Java support
16.09	2017-10-09	count received measurements and timestamps, create error message 0x7F22
16.07	2017-06-16	bug fixes heavy network traffic
16.05	2017-02-10	error number added CKK_HardwareFault(9): device doesn't send measurement data added: KK_SetOutputPath
16.03	2016-11-16	added: KK_GetHostAndIPs, KK_Debug, KK_SetOutputPath error message added 0x7F23: receive buffer overflow (K+K DLL) support firmware version 43
16.00	2016-09-15	Initial version

FXX Graphical User Interface

Version	Date	Description
3.3.2	2024-08-09	Bug fixes device configuration (IP-Addresses, Timeout) Includes KK-Library 20.2.5
3.3.1	2024-07-30	Bug fixes logging files with NSZ data Includes KK-Library 20.2.4
3.3.0	2024-07-25	Linear combinations replaced by virtual channels Device configuration added Bug fixes log files with virtual channels
3.2.2	2024-06-11	Virtual channels added with definition dialog, Frequencies, Phase-Difference and Phaseresiduals in text and graphic windows and logging
3.2.0	2024-05-30	DebugErrorLog added Bug fixes network, CAN Includes KK-Library 20.2.2 Virtual cahnnels added
3.1.4	2024-03-26	Includes KK-Library 20.1.4 added: ADEV text and graphic windows Phase residuals, Phase differences added: Display controls FXE2-PPI added: Display controls CAN type
3.1.3	2023-12-04	Allan Graphic: labelling tau axis in E notation Includes KK-Library 20.1.3
3.1.2	2023-12-02	Includes KK-Library 20.1.2
3.1.1	2023-11-21	Bug fixes graphic persist display data during reference clock error
3.1.0	2023-11-02	Includes KK-Library 20.1.0 max. number of FDI cards = 8 added log type Phase Residuals logging of 1ms data improved Graphic win: persist settings improved Connection settings: serial baud rate added Settings debug logging added: source stream
3.0.0	2023-09-06	Includes KK-Library 20.0.0 Added support of FXE2: network connection with host name optional baud rate for serial connections
2.1.0	2023-01-24	Includes KK-Library 19.3.1 Added: FXE Time
2.0.2	2022-11-01	Includes KK-Library 19.3.0 Added: Supports connections via CAN Allan Deviation (frequency)
2.0.0	2021-12-07	Includes KK-Library 19.1.2 Added: FXE High Resolution Support Generating Test Data Bug fix: graphic phase diff

1.9.4	2021-08-12	Includes KK-Library 19.1.0 (Statistic ElntOverflow)
1.9.3	2021-07-19	Changed sensor: use last sensor measurement in multi-source log files and double-graphic windows Bug fix multiple source log files Includes KK-Library 19.0.3 Bug fix serial connection
1.9.1	2021-05-28	Added: Logging file option (limit size, prepend date)
1.9.0	2021-05-20	Reading reports improved Change source: keep windows open, if possible Includes KK-Library 19.0.2
1.8.3	2021-04-27	Detection of invalid NSZ channels (-9.99)
1.8.2	2021-04-21	Bug fixes: Logging with source TCP server Changed: Info window combo boxes: no changes via mouse wheel
1.8.1	2021-04-15	Bug fixes: Local TCP server (Frequency Log String, decimal separator in Phase Log Strings) Changed: Tera-Term-Sensor Channel order Added: Tera-Term-Sensor Channels Temperature2, Humidity2
1.8.0	2021-04-13	Phase-Difference Channel n-1 added: Graphic-Window, Text-Window, Logging Includes KK-Library 19.0.1 Bug fixes: Windows Shutdown
1.7.5	2021-02-08	Bug fixes Changed: Selection of text window, Selection of graphic window Added: phase predecessor difference for text-/graphic windows, multi sampler Library version >= 18.2.4
1.7.4	2021-01-14	Bug fixes: New/Change/Remove Source
1.7.3	2021-01-11	KK-Library 18.2.3
1.7.2	2020-12-17	Automatical open USB device, if connected after app start Bug fixes Nominal frequencies, linear combinations Support firmware version 64
1.7	2020-11-06	Multiple USB users
1.6.3	2020-10-20	Added: NSZ calibration data

Firmware Uploader Tool

Version	Date	Description
5.0.10	2424-08-09	Bug fixes FXE2 Includes KK-Library 20.2.5 Layout adapted to small laptop screen Support FXE2 firmware < 1.09
5.0.9	2024-06-03	Includes KK-Library 20.2.3 Bug fixes FXE2
5.0.6	2024-03-26	Includes KK-Library 20.1.4 Bug fixes FXE2 Linux added: Display controls FXE2-PPI
5.0.5	2023-12-04	Includes KK-Library 20.1.3 Bug fixes FXE
5.0.4	2023-12-02	Includes KK-Library 20.1.2 Bug fixes FXE2
5.0.3	2023-11-21	Correction of reset behaviour
5.0.2	2023-11-02	Includes KK-Library 20.1.0 FXE2 support extended: Start condition FXE mode/rate since firmware 1.09 Progress display for waiting actions
5.0.0	2023-09-12	Support of FXE2 via network
4.4.7	2023-02-28	Bug fix close USB
4.4.6	2022-06-08	Bug fix Windows USB reset
4.4.5	2021-11-22	KK-Library 19.1.2 Connected user: request to continue
4.4.4	2021-01-21	Bug fixes Open Error
4.4.3	2021-01-11	User Input Hardware Feature KK-Library 18.2.3
4.4.2	2020-12-17	Support firmware version 64
4.4	2020-11-06	Multiple USB users
4.3.6	2020-10-12	Support firmware versions 60..62

FPGA Upgrade Tool

Version	Date	Description
2.0.2	2021-04-30	Initial Version

Java Support

Version	Date	Description
1.9	2023-01-05	KK-Library 19.3.1
1.8	2022-10-09	KK-Library 19.3.0
1.7	2021-12-20	KK-Library 19.2.0
1.6	2021-12-07	KK-Library 19.1.2. Linux support added
1.5	2021-05-28	KK-Library 19.0.2

Python Support

Version	Date	Description
1.6.1	2024-05-03	KK-Library 20.2.1
1.5	2023-01-05	KK-Library 19.3.1
1.4	2022-10-09	KK-Library 19.3.0
1.3	2022-01-05	KK-Library 19.2.0
1.2	2021-11-18	KK-Library 19.1.2
1.1.0	2021-05-28	KK-Library 19.0.2