

	Kvaser Leaf Light/Leaf Light Rugged	Kvaser Leaf SemiPro	Kvaser Leaf Professional	Kvaser Memorator Professional (Note a)	Kvaser Memorator (Note a)	Kvaser USBcan Professional	Kvaser USBcanII /USBcan Rugged	Kvaser BlackBird SemiPro
PC interface	USB 2.0, 1.1	USB 2.0, 1.1	USB 2.0, 1.1	USB 2.0, 1.1	USB 2.0, 1.1	USB 2.0, 1.1	USB 2.0, 1.1	WLAN / USB 2.0, 1.1
PC communication type	USB 2.0	USB 2.0	USB 2.0	USB 2.0	USB 1.1	USB 2.0	USB 1.1	802.11b/g / USB 2.0
CAN connector	DSUB 9	DSUB 9	DSUB 9 /OBD2	DSUB 9	DSUB 9	DSUB 9 /RJ45	DSUB 9	DSUB 9 / DSUB 15
Number of Channels	1	1	1	2	2	2	1 / 2	1 / 2 / 3
Galvanic isolation	Optional/ X	X	X	X		X		X
Temperature range (Celsius)	0 - +70 / -40 - +85	-40 - +85	-40 - +85	-40 - +85	-40 - +85	-40 - +85	-40 - +85 / -40 - +85	-30 - +85
RoHS compliant	X	X	X	X	X	X	X	X
Power Supply	USB	USB	USB	USB or CAN bus	USB or CAN bus	USB or CAN bus	USB or CAN bus	USB or CAN bus
On-board buffer	X	X	X	X	X	X	X	X
RX performance per channel	8000	15000	20000	20000	12000	20000	12000	15000
TX performance per channel	8000	15000	20000	20000	6000	20000	6000	15000
Time stamp resolution (µs)	1	1	1	1	1	1	1	1
Time stamp accuracy (µs)	100	25	1	2	30	2	30	25
Clock Synchronization		X	X	X		X		
Silent Mode		X	X	X	X	X	X	X
Error frames generation		X	X	X	X	X	X	X
Error counters reading		X	X	X	X	X	X	X
Error frame detection	X	X	X	X	X	X	X	X
Auto Transmit Buffers			X					
Auto Response Buffers			X					
Option for Low-Speed CAN		X	X	X	X			
Option for Single-Wire CAN		X	X		X			
Option for LIN			X					
Option for Kvaser Linx	X	X	X	X	X	X	X	X
Driver for Windows 98/ME	X	X	X	X	X	X	X	
Driver for Windows 2000/XP/Vista	X	X	X	X	X	X	X	X
Driver for Linux	(Note c)	(Note c)	(Note c)	(Note c)	(Note c)	(Note c)	(Note c)	(Note c)
Driver for Windows CE	X	X	X	(Note d)	(Note d)	(Note d)	X	(Note d)
RP1210A API	X	X	X	X	X	X	X	X
J2534 API	X	X	X	X	X	X	X	X
Driver for LabVIEW	X	X	X	X	X	X	X	X
Driver for DIAdem	X	X	X	X	X	X	X	X

Notes

- a) Kvaser Memorator in USB to CAN mode.
- b) Kvaser DRVcan Fi HS, DRVcan Fi LS, DRVcan Fi SWC, DRVcan S and DRVlin are power supplied by the CAN or LIN bus.
- c) Please contact us for the complete list of supported distributions and kernels.
- d) Work in progress, please contact us if interested.
- e) Kvaser PCIExpress, PClcan and PClcanx don't have an on-board CPU so the driver relies on the clock in the PC to timestamp the incoming messages.

We believe that the information contained herein was accurate in all respects at the time of printing. KVASER AB cannot, however, assume any responsibility for errors or omissions in this text. Please also note that the information in this document is subject to change without notice and should not be construed as a commitment on the part of KVASER AB.

	Kvaser PCIeCan	Kvaser PCIcanx II	Kvaser PCIcanx	Kvaser PCIcan	Kvaser PC104+	Kvaser PC104	Kvaser LAPcanII and DRVcan/DRVlin	
PC interface	PCI Express 1x	3.3V PCI-X 3.3V, 5V PCI	3.3V PCI-X, 3.3V, 5V PCI	5V PCI	PC/104+	PCI-104	PC-Card Version 2.0 (PCMCIA) or compatible	
PC communication type	Direct I/O	DPRAM	Direct I/O	DPRAM	DPRAM	DPRAM	FIFO	
CAN connector	DSUB 9	DSUB 9	DSUB 9/25	DSUB 9/25	DSUB/IDC	DSUB / IDC	DSUB 9	
Number of Channels	2	2	1 / 2 / 4	1 / 2 / 4	2	2	1 / 2	
Galvanic isolation	X	X	X		X	X	Optional	
Temperature range (Celsius)	-40 - +85	-40 - +85	-40 - +85	-40 - +85	-40 - +85	-40 - +85	0 - +70	
RoHS compliant	X	X	X		X	X		
Power Supply	PCI Express	PCI-X or PCI slot	PCI-X or PCI slot	PCI slot	PCI	PCI	PCMCIA (Note b)	
On-board buffer	X	X	X	X	X	X	X	
RX performance per channel	5000	16000	5000	5000	16000	16000	10000	
TX performance per channel	5000	8000	5000	5000	8000	8000	5000	
Time stamp resolution (µs)	1	1	1	1	1	1	8	
Time stamp accuracy (µs)	20 (Note e)	20	20 (Note e)	20 (Note e)	20	20	50	
Clock Synchronization								
Silent Mode	X	X	X	X	X	X	X	
Error frames generation		X			X	X	X	
Error counters reading	X	X	X	X	X	X	X	
Error frame detection	X	X	X	X	X	X	X	
Auto Transmit Buffers								
Auto Response Buffers								
Option for Low-Speed CAN								X
Option for Single-Wire CAN								X
Option for LIN								X
Option for Kvaser Linx	X	X	X	X	X	X	X	X
Driver for Windows 98/ME		X	X	X	X	X	X	X
Driver for Windows 2000/XP/Vista	X	X	X	X	X	X	X	X
Driver for Linux	(Note c)	(Note c)	(Note c)	(Note c)	(Note c)	(Note c)	(Note c)	(Note c)
Driver for Windows CE	(Note d)	(Note d)	(Note d)	(Note d)	(Note d)	(Note d)	(Note d)	X
RP1210A API	X	X	X	X	X	X	X	X
J2534 API	X	X	X	X	X	X	X	X
Driver for LabVIEW	X	X	X	X	X	X	X	X
Driver for DIAdem	X	X	X	X	X	X	X	X

Notes

- In USB to CAN mode only, please refer to the Kvaser Memorator Product Comparison table for detailed data logging capabilities.
- Kvaser DRVcan Fi HS, DRVcan Fi LS, DRVcan Fi SWC, DRVcan S and DRVlin are power supplied by the CAN or LIN bus.
- Please contact us for the complete list of supported distributions and kernels.
- Work in progress, please contact us if interested.
- Kvaser PCIeExpress, PCIcanx and PCIcan don't have an on-board CPU so the driver relies on the clock in the PC to timestamp the incoming messages.

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