

Kvaser Leaf Product Comparison Table

Property	Kvaser Leaf Light HS/Light Rugged HS	Kvaser Leaf SemiPro HS	Kvaser Leaf SemiPro LS	Kvaser Leaf SemiPro SWC	Kvaser Leaf Professional HS	Kvaser Leaf Professional LS	Kvaser Leaf Professional SWC
Bit rate (Kbits/s)	5 - 1000	5 - 1000	5 - 125	5 - 50/100	5 - 1000	5 - 125	5 - 50/100
CAN physical layer	High-speed ¹	High-speed ¹	Low-speed ²	Single-Wire ³	High-speed ¹	Low-speed ²	Single-Wire ³
Typical current consumption (mA at 5V)	70	70	70	70	70	70	70
Temperature range (Celsius)	-0 - +70 / -40 – +85	-40 – +85	-40 – +85	-40 – +85	-40 – +85	-40 – +85	-40 – +85
Galvanic isolation	Optional / Yes	Yes	Yes	Yes	Yes	Yes	Yes
Clock accuracy (Microseconds)	100	25	25	25	1	1	1
Clock synchronisation of multiple devices	No	Yes	Yes	Yes	Yes	Yes	Yes
Max message rate (Messages/s)	8000	15000	2500	2000	20000	2500	2000
Time stamp (bits)	32	32	32	32	32/64	32/64	32/64
Error counters reading	No	No	No	No	Yes	Yes	Yes
Mix 11 / 29 bit messages	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Error frame detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Error frame generation	No	Yes	Yes	Yes	Yes	Yes	Yes
Silent mode	No	Yes	Yes	Yes	Yes	Yes	Yes
LED indicators	2	3	3	3	4	4	4
Sound indicator	No	No	No	No	Yes	Yes	Yes
CAN connector	9-pin DSUB	9-pin DSUB	9-pin DSUB	9-pin DSUB	9-pin DSUB/ OBD2	9-pin DSUB	9-pin DSUB
USB cable length	110 cm (44 in.)	110 cm (44 in.)	110 cm (44 in.)	110 cm (44 in.)	110 cm (44 in.)	110 cm (44 in.)	110 cm (44 in.)
CAN cable length	30 cm (12 in.)	30 cm (12 in.)	30 cm (12 in.)	30 cm (12 in.)	30 cm (12 in.)	30 cm (12 in.)	30 cm (12 in.)
Power supply	USB	USB	USB	USB	USB	USB	USB
Auto transmit buffers	No	No	No	No	Yes	Yes	Yes
Auto response buffers	No	No	No	No	Yes	Yes	Yes
USB version	2.0 & 1.1 12 Mbit/s	2.0 & 1.1 12 & 480 Mbit/s	2.0 & 1.1 12 & 480 Mbit/s	2.0 & 1.1 12 & 480 Mbit/s	2.0 & 1.1 12 & 480 Mbit/s	2.0 & 1.1 12 & 480 Mbit/s	2.0 & 1.1 12 & 480 Mbit/s
Load dump protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Polyurethane cabling	No / Yes	Yes	Yes	Yes	Yes	Yes	Yes
Notes							
1) ISO 11898-2							
2) ISO 11898-3							
3) SAE J2411, GMLAN							