CAN BUS DATA LOGGER

REXGEN 2 IMU GNSS

CAN/CAN FD logger with GNSS, gyro and accelerometer

INF2112.02 (16 GB) INF2112.03 (32 GB)

CAN AND BUSES

CAN channels	2 × CAN 2.0 / CAN FD
LIN channels	1 × LIN
Max CAN bit rate	1 Mbit/s (CAN 2.0), 8 Mbit/s (CAN FD)
Message rate	Up to 20,000 messages/s
ID filters	200
Analogue inputs	2, ±10 V, 12-bit, up to 1 kHz
Digital inputs	2, up to 1 kHz
Triggering	CAN ID, CAN signal, digital input, DM1 counter, with pre-trigger capture

MOTION AND POSITION

GNSS receiver	72-channel, multi-constellation
Position accuracy	2.0 m CEP
GNSS antenna	External, SMA, 5 m antenna included
Accelerometer	±2 / ±4 / ±8 / ±16 g, up to 1 kHz
Gyroscope	±125 to ±2000 dps, up to 1 kHz

STORAGE AND DATA

Onboard storage	16 or 32 GB soldered eMMC, FIFO when full
Storage format	FAT32
Export formats	MDF4, CSV, MATLAB, ASC, BLF, TRC
Configuration	REXDESK (free)
Toolkit	REXLIBRARY (open source)
Real-time clock	Inbuilt, synced from a CAN message or REXDESK

CONNECTORS

PC interface	Micro USB 2.0 (J2534 pass-thru)
Bus and I/O	2 × 9-pin D-Sub
Antenna	SMA
Indicators	2 status LEDs

POWER

Supply voltage	+5 V to +27 V (OBD)
Operating current	< 80 mA at 12 V
Sleep current	< 25 mA sleep, < 2 mA deep sleep
Wake	WakeOnCAN, wake on movement
Max safe input	+34 V power, ±28 V CAN

COMPLIANCE AND SECURITY

CAN standards	ISO 11898-1 / -2 / -5, ISO 11898-1:2015 (CAN FD)
Protocols	Raw CAN, CAN FD, LIN, SAE J1939, DM1
Pass-thru	J2534
Device locking	RSA
Log encryption	AES (licensed option)

PHYSICAL

Dimensions	100 × 73.5 × 27.4 mm
Weight	164 g
Enclosure	PC and ABS, stackable
IP rating	IP65
Operating temp.	−40 to +85 °C
Humidity	Max 90%
Mounting	4 mounting holes, stainless steel screws

ORDERING

Part numbers	INF2112.02 (16 GB), INF2112.03 (32 GB)
In the box	Logger (INF2112), REXDESK (INF1099), Micro USB cable (INF4300), mounting screws (INF4403), 5 m GNSS antenna (INF4306.6), 12 months SLA (INF6102)
Origin	Designed and tested in the United Kingdom
Warranty	12 months from shipping date

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Document v1.0

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