



CANgine Light

FMS

Product description

CANgineLight is the recent advancement of the highly popular CANgine 1, whose 8-bit controller is slightly outdated by now. Equipped with a modern 32-bit cortex-M0 microcontroller, the performance of CANgineLight takes another order of magnitude than its precursor. As it is clocked internally with 48 MHz, plenty of power reserves for further firm-ware extensions are readily available.

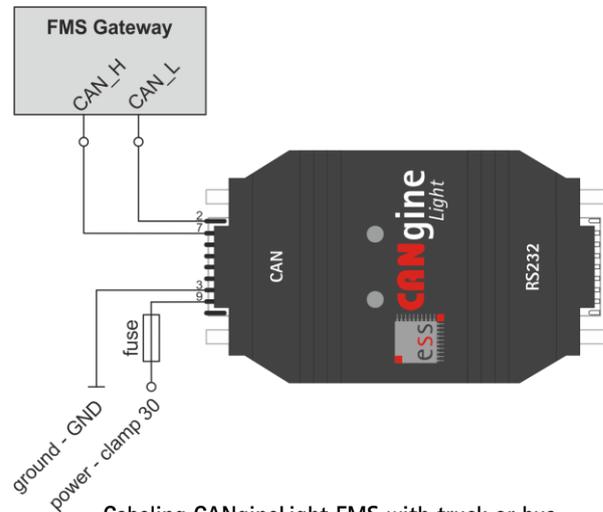
The variation presented in this datasheet is called CANgineLight FMS. As the successor of CANgine-FMS, CANgineLight FMS is completely compatible and can be used as a direct replacement for CANgine FMS. Needless to say, the new generation has some significant firmware improvements like integration of the FMS3-standard and a new user-friendly output format.

modern hardware combined with high-tech exper-tise from more than 10 years experience in FMS-RS232 converter-development.

FMS data sets are received in real time and are buffered internally. Configuration is performed using simple commandos via the serial interface. The timer-controlled output and the selection of the output data are parametrizable. Every message defined in the FMS3-standard system may be se-lected for data output.

For flexible subsequent processing of the FMS data, three different data output formats are avail-able. Each of these three formats is optimized to either be read by the user, to be displayed in spread-sheet applications or for further software-processing.

Technical data	
Microcontroller	ARM Cortex-M0 48 MHz clock Full CAN 2.0B interface
CAN transceiver	ISO 11898-2 (high speed) compliant
CAN bitrate	250 kbit/s, 500 kbit/s or 667 kbit/s
CAN FMS protocols	FMS 1, 2, 3 Bus Et Truck
RS232 baudrates	2.400 to 115.200 bit/s
CAN/FMS connector	D-Sub 9 male
RS232 connector	D-Sub 9 female
Display	LED RUN (green) and LED ERR (red)
Power supply	7 - 30 VDC
Supply current	~ 20 mA / 12 V
Operating temperature	-40 - 85 °C
Size	70 x 42 x 21 mm ³
Weight	34 g



Cabeling CANgineLight FMS with truck or bus

CANgineLight FMS is a small FMS-RS232 convert-er. It was developed to provide an easy access to FMS data in commercial vehicles. Information can be read out from every device equipped with a serial interface. By using ASCII strings as output format, CANgineLight is completely platform-independent, eliminating the necessity for specific software or drivers. CANgineLight is the newest addition to the CANgine family. You benefit from

Power supply is provided via CAN connector. Sta-tus LEDs show operation mode and indicate error conditions. Timer-controlled output can be adjust-ed between 100ms and several hours. Additionally, CANgineLight has a trigger mode in which output will be performed by sending a character via serial interface.

