



HIGHLIGHTS

- ▶ Fully transparent for all higher layer protocols like CANopen or J1939
- ▶ Bit rates up to 500Kbit/s
- ▶ CAN Galvanically isolated
- ▶ -40 to +70°C operating temperature

OVERVIEW

The D220C is a compact CAN repeater that connects two CAN networks to a single logical CAN bus and galvanically isolates them. The repeater is equipped with an FPGA that integrates the glue logic for the functionality. It is fully transparent to any CAN protocol and can therefore be used in a wide range of applications.

The D220C is powered directly from the train battery (24V to 110V). There is no need for an additional DC/DC converter.

The D220C is designed for harsh rolling stock environment and complies with the EN 50155 standard by:

- -40 to +70°C operating temperature
- coating against humidity
- enhanced EMI and vibration robustness

TECHNICAL SPECIFICATION

PHYSICAL DATA

CAN connectors	SUB-D, 9-pin, male
JTAG port connector	Header, 10-pin
Visual indicators (LEDs)	SYS: System state INIT: Initialization C0/C1: activity on CAN0/CAN1
Power supply voltage range	24 Vdc – 110 Vdc
Power consumption	<3 W
Overall dimensions	117 × 120 × 31.6 mm
Weight	400 g

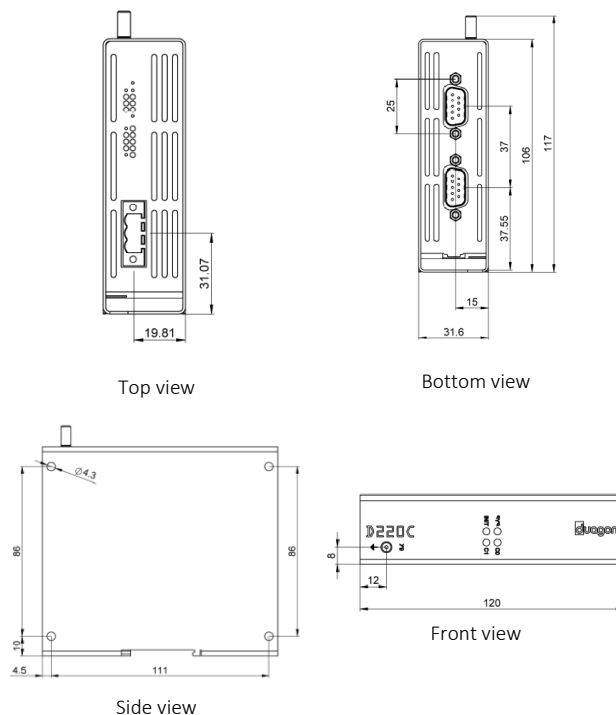
Operating temperature	-40 to +70°C, according to EN 50155; Class TX
Storage temperature	-40 °C to +85 °C
Relative humidity	yearly average ≤75%, 95% for 30 consecutive days max. (EN 50155)
Useful life	20 years, according to EN 50155 Class L4

COMPLIANCE

EN 50155:2021	Railway Applications (Electronic equipment used on rolling stock)
EN 50121-3-2:2016	Electromagnetic compatibility rolling stock apparatus
EN 50125-1:2014	Environmental conditions
EN 50129:2003, SILO	Safety-related electronic systems
EN 50128:2011, SILO	Software on Board Rolling Stock
EN 61373:2010	Shock & Vibration
EN 45545-2:2021	Fire protection, HL3
ISO11898-2:2016	Controller area network (CAN)
RoHS	Restriction of the Use of Certain Hazardous Substances
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals

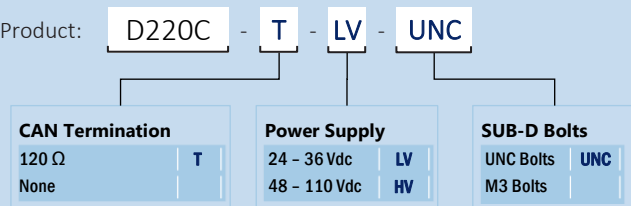
DIMENSIONS

Dimensions only for reference



ORDERING INFORMATION

Product:



Example:

D220C-T-LV-UNC¹

¹ default ordering options