

LPWAN DIN Rail Antenna

TECHNICAL DATA SHEET

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 +49 40 35 73 20 65

 vertrieb@enqt.de

Description:

The compact **LPWAN DIN rail antenna** is ideal for installation in meter cabinets and electric cabinets of all kinds. This antenna can be mounted easily on DIN 50022 top-hat rails and is unobtrusive. The LPWAN DIN rail antenna is fitted with a 25 cm long low loss cable with FAKRA-C connector. The antenna is suitable for all radio standards in the 868 MHz band, such as wireless M-Bus, LoRa, SigFox, Mioty, KNX and others.

Technical details:

Frequency range	862 - 870 MHz
supported	wireless M-Bus, LoRa, SigFox, Mioty, KNX and others
Antenna gain max.	3 dBi (≈ 1 dBd)
Antenna gain min.	2 dBi (≈ 0 dBd)
Standing wave ratio* (VSWR)	< 2:1
Impedance	50 Ω
Efficiency	> 50 %
Polarization	vertical (if mounted vertically)
Antenna type	PCB patch
Radiation pattern	omnidirectional (in free space)
Power (max.)	5 W
Cable	low-loss (AA100 type, attenuation < 0.85 dB/m at 2 GHz)
Cable length	25 cm
Connector	FAKRA C
Temperature range	-40 °C to +85 °C
Humidity	max. 95 % RH (non-condensing)
Wind resistance	> 150 km/h
Flammability	flame-retardant in accordance with UL 94 V-0
Product lifetime	min. 20 years
Conformity	ROHS, CE
Color	blue