# **AD\ANTECH**

## CO<sub>2</sub> Emissions Report

#### **Identification Data**

Product PN:	ICR-2431W	
Device Type:	LTE Industrial Router	
Created by:	Roman Peťura (DME)	
Date:	October 9, 2024	

#### **Unit Manufacturing Emissions**

Item	Amount	Unit
Manufacturing power consumption	0.015	kWh/unit
Factory emission factor	0.42	kg CO <sub>2</sub> e/kWh
Annual operation emission	0.0063	kg CO2e/unit

#### **Assumed Usage Scenario**

Item	Amount	Unit
Typical mode Power	3.6	W
DailyWorking hours	24	hrs/day
Annual operating days	365	days/year
MTBF	198,648	hours
Device lifespan	22.68	years

### **Emission Estimation of Product Usage**

Item	Amount	Unit	Calculation Description
Emission factor <sup>1)</sup>	0.34	kg CO <sub>2</sub> e/kWh	Average emissions intensity of electricity generation.
Consumption	31.536	kWh/year	Consumption(kWh/year) = Power × DailyWorking hours × Annual operating days.
Yearly CO <sub>2</sub> emissions	10.72	kg CO2e/year	CO <sub>2</sub> Emissions of product use = Consumption × Emission factor
Lifespan CO <sub>2</sub> emissions	243.15	kg CO2e/lifespan	The total CO <sub>2</sub> emissions over the lifespan of the device are estimated by multiplying the yearly emissions by the device lifespan.

<sup>1)</sup>Emission factors are based on the International Energy Agency's (IEA) 2019 Global Energy Review.

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