

Food Intake Monitor Computer for TOX-RCC - Socially Housed RATS

Data Acquisition (DAQ) System - Windows 11 IoT LTSC

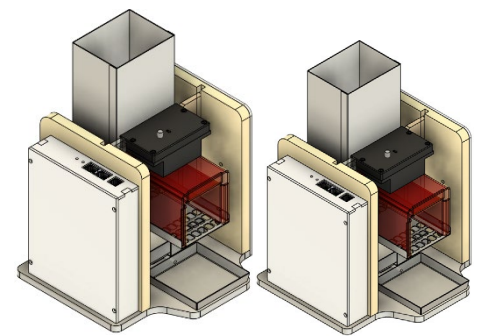
The DAQ IoT Computer is a robust and versatile data acquisition and control platform designed for laboratory, industrial, and research applications requiring reliable multi-channel communication and integration with modern IoT environments.



DAQ Enclose with touch display and IO-connection
Size (mm) 289x1239x107

Computer Key Specifications

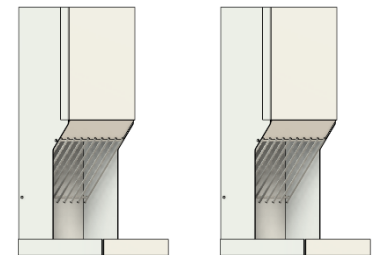
- **Operating System:** Windows 11 Pro (64-bit) IoT LTSC – optimized for industrial and IoT applications
- **Processor:** Intel Core Ultra 5 (Serie 1) 135H, 1.7GHz
- **Ram:** 32 Gb
- **M.2 SSD:** 1Tb
- **Display:** HDMI, 7" Touch Display
- **Wi-Fi:** Ver. 7
- **Bluetooth:** Ver. 5.4



Standard: 2 food hoppers/DAQ
Max: 4 food hoppers/DAQ

Communications Interfaces

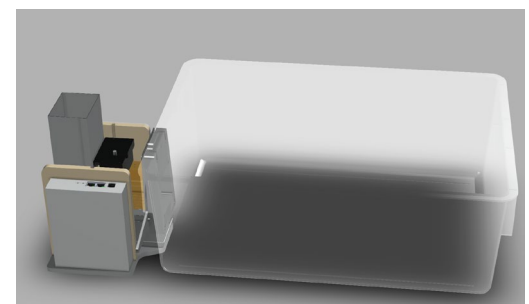
- **8 × Serial COM Ports RS-232** – supports connection to external sensors, controllers, and legacy equipment
- **16 × Digital Inputs** – channels for signal acquisition, event logging, or trigger inputs
- **4 × Digital Outputs** – configurable outputs for device control, relays, or status signaling
- **Ethernet Port (2.5 Gbps)** – network and IoT connectivity for remote access, monitoring, and data transmission
- **4 × USB Ports (USB 3.x/2.0 compatible)** – for peripheral devices
- **2 × USB-C 3.2 Ports**



Food Hoppers

DAQ Features and Power Consumption

- **Data Acquisition:** High-resolution and time-synchronized input/output management via dedicated DAQ interface software
- **Enclosure:** Compact, industrial-grade housing for continuous 24/7 operation
- **Power Supply:** 19 VDC input with surge protection
- **Power consumption:** 10-35 Watt depending on CPU load.
- **Software Compatibility:** Fully compatible with standard DAQ, automation, and IoT middleware platforms (e.g., LabVIEW, Python, MATLAB, and proprietary HM20 software)



Food Hopper mounted at cage