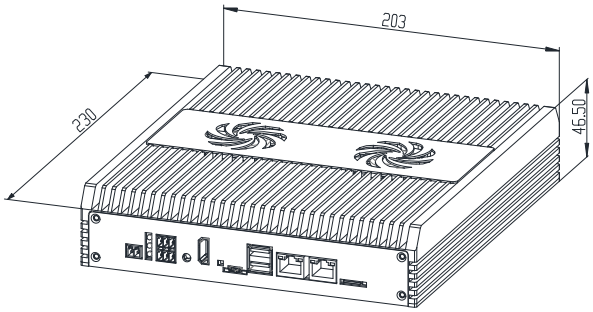
Digital Intersection Edge Computing Unit SV-ETL-X3-EX

Product Overview

The product is equipped with a high-performance AI computing module and supports parallel access and processing of multiple video streams. It can perform real-time detection, tracking and behavior recognition of road targets including motor vehicles, non-motor vehicles and pedestrians.

It is widely deployed in scenarios such as digital intersections, vehicle-road-cloud integration, roadside parking management, traffic order control, non-motor vehicle regulation and urban governance.

Product Appearance



Functional Features

- Built-in deep learning-based AI edge computing module and remote control module
- Conduct video structural analysis on captured image data
- Make judgments on collected image data and upload results to the platform
- Work with surveillance cameras or general PTZ cameras to analyze object behaviors and upload data to the platform

BLUE ROBOT AI
Address: RM1903, 19/F LEE GARDEN ONE, 33 HYSAN AVENUE, CAUSEWAY BAY, HK
Email: support@bluerobotai.com
Website：https://www.bluerobotai.com/

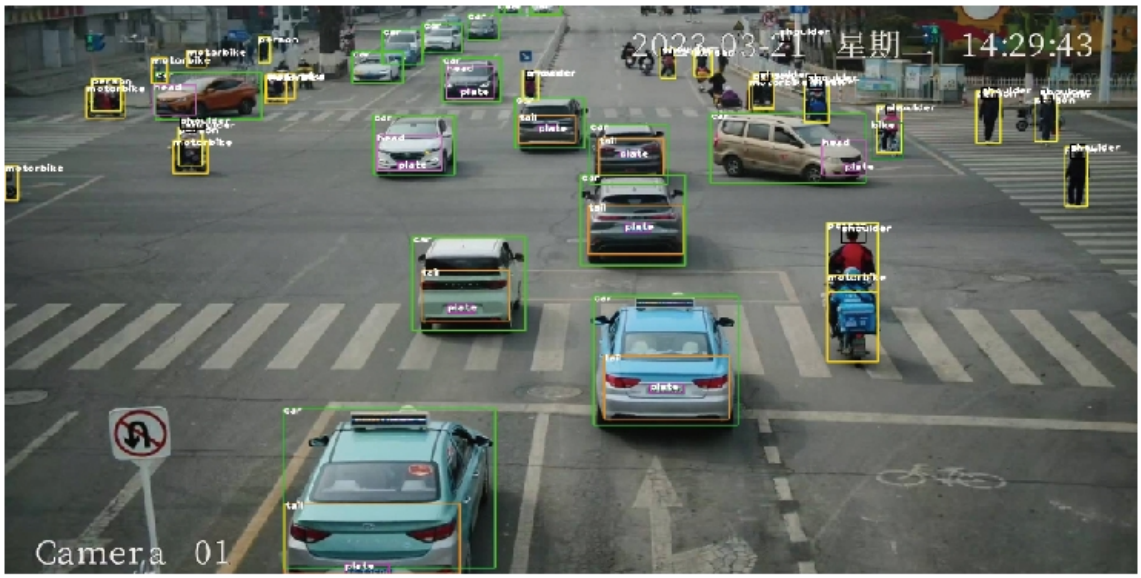
- Support remote batch non-perceptual upgrade of device firmware and image algorithm models
- Enable remote batch configuration of device attributes, with cloud backup and restoration available
- Support offline time synchronization to ensure accurate system time without network connection
- Decode up to 16 channels of 1080P video or 4 channels of 4K video, and support JPEG image decoding
- Locally cache service data during network outages, and automatically resume data transmission after network recovery

Technical Specifications

Parameter Name	Parameter Value
Processor	
CPU	8-core Cortex A55 processor, max. main frequency 1.5GHz
Computing power	16.0 TOPS
Memory/storage	8 GB LPDDR4X+32GB flash memory
Operating system	UBUNTU 20.04
Interfaces	
Ethernet Ports	2 Gigabit Ethernet ports
USB ports	2 USB 3.0 ports
Serial ports	1 USB debug port, 1 RS485 port
SD card slot	1 TF cart slot (32GB by default)
Video interface	1 HDMI port
General Specifications	
Power Input	DC 9.6~14.4V
Operating Temperature	-30℃~70℃
Humidity Resistance	93%±3%RH, No condensation
Average Power Consumption	≤13W
Dimensions(mm)	203mm*230mm*46.5mm(L*W*H)
Weight	2.5KG

Application scenarios

Intelligent transportation: digital intersections, vehicle-road-cloud integration, roadside parking management, traffic order control, non-motor vehicle regulation and urban governance.



BLUE ROBOT AI
Address: RM1903, 19/F LEE GARDEN ONE, 33 HYSAN AVENUE, CAUSEWAY BAY, HK
Email: support@bluerobotai.com
Website：https://www.bluerobotai.com/