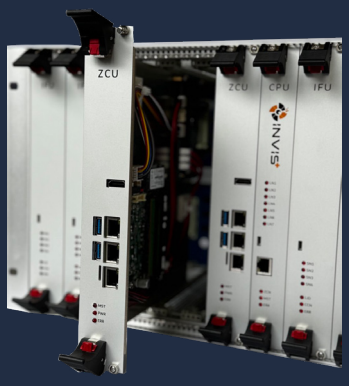
PRODUCT DATA SHEET

NEXOR Zone Controller

REDEFINING RELIABILITY IN VEHICLE CLASSIFICATION



The NEXOR is the central processing and control unit of the AVALON system in MLFF installations, delivered as a modular card mounted inside the rack. It is built around a reliable fanless industrial computer designed for continuous 24/7 operation in harsh roadside environments.

NEXOR is responsible for generating precise, time-synchronized triggers for ANPR cameras to ensure accurate image capture at the exact moment of vehicle passage. At the same time, it reads and processes data from TAG readers and collects vehicle classification data from the AVC system.

This module synchronizes all incoming data streams from field devices and combines them into a unified and reliable transaction record for each vehicle.

NEXOR manages field-level coordination, local monitoring, and real-time communication between the MLFF lane equipment and the central data center and back-office servers. Acting as the data aggregation and control hub of the lane, it ensures stable and deterministic system operation.

Its modular design allows easy installation inside the AVALON platform. For maximum reliability, two NEXOR units can be installed within the same system to provide **hot redundancy**. In this configuration, the secondary unit automatically takes over in case of a failure in the primary unit, ensuring uninterrupted operation and continuous data integrity.

KEY SPECIFICATIONS

- Redundancy management (Active/ Standby – Hot Failover)
- Local field monitoring interface
- AVC data acquisition & synchronization
- Field device management services
- TAG reader communication & data collection
- 2.5 × 4GbE Ethernet ports for field & network connectivity
- Industrial operating temperature range

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NEXOR Zone Controller SPECIFICATION

REDEFINING RELIABILITY IN VEHICLE CLASSIFICATION

Hardware (HW)	Software (SW)
Fanless industrial embedded computer	Linux-based operating system
Intel® 12th/13th Gen processor platform	Web-based application for configuration & monitoring
Up to 32 GB DDR5 RAM	SNMP support for remote monitoring & diagnostics
Industrial SSD storage (SATA / NVMe)	Field device management services
4 × 2.5GbE Ethernet ports for field & network connectivity	Trigger management for ANPR cameras
Multiple USB interfaces for peripheral devices	TAG reader communication & data collection
Serial interfaces (RS232/422/485) for industrial devices	AVC data acquisition & synchronization
Digital I/O support for field integration	Time synchronization between all lane subsystems
M.2 expansion support (Wi-Fi / 4G / 5G optional)	Data aggregation & preprocessing at field level
TPM 2.0 hardware security	Communication with central servers & data center
Wide DC input (9–36V) for industrial environments	Local field monitoring interface
Industrial operating temperature range	Redundancy management (Active/Standby – Hot Failover)

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