



TJ **TESSOLVE**
A Hero Electronix Venture

DYNAMO
EDGE

TERA drA.I.ve

Your 5G Car in a Box is here.

Tessolve Automotive Service Gateway + DynamoEdge Real-Time AI.
The first integrated Telemetry and Network Awareness 5G Gateway, delivering Edge AI Applications, out of the manufacturing line.

TRANSFORM DATA INTO REAL TIME PREDICTIONS AT SCALE.

»» Benefits

- Real-Time Data and signal sharing
- Faster navigation, mapping, and voice services
- Faster music downloads & higher quality
- Secure over-the-air software updates
- Predictive and Prescriptive Vehicle Health
- Conversational AI messaging
- Improved roadway-centric coverage
- Cellular V2X communication at scale

Applications

- PREScriptive MAINTENANCE
- ENHANCED SAFETY
- COLLISION AVOIDANCE
- PREDICTIVE QUALITY OF SERVICE
- DRIVER BEHAVIOR
- REMOTE OPERATION
- PERSONALIZED VIDEO STREAMING
- AUGMENTED REALITY (AR) APPLICATIONS

DynamoEdge drA.I.ve

IMAGINE WHAT CAN YOU DO IF YOU CAN PREDICT AND CORRECT THE FUTURE...

DynamoEdge offers a Real-Time Analytics Platform able to stream Continuous Actionable Predictions at scale.

By processing its Artificial Intelligence at the Edge and working closely with 5G networks, the DynamoEdge solution delivers actionable predictions with very low latency and at very high speeds.

LEARN FROM THE FUTURE ADAPT THE PRESENT

LOSSLESS

High Speed
High Density Data
Event Based

EFFICIENT

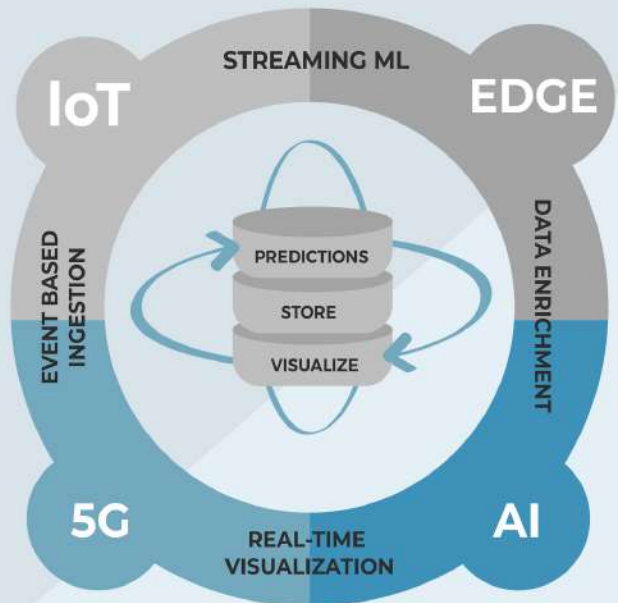
Edge Computing
On-The-Fly Data Preparation
Analyze before storing

DATA ENRICHMENT

AI At each node
Radio Awareness
Personalized Services

DISTRIBUTED ML

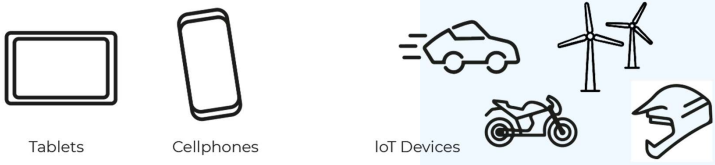
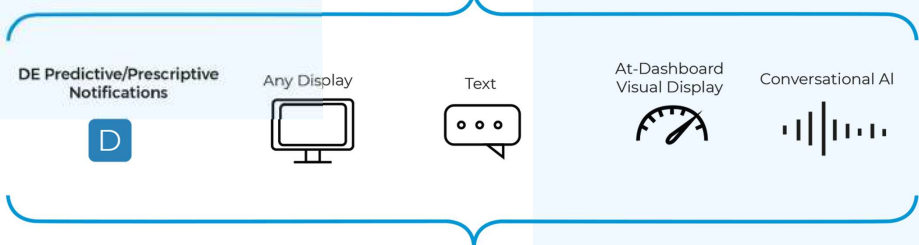
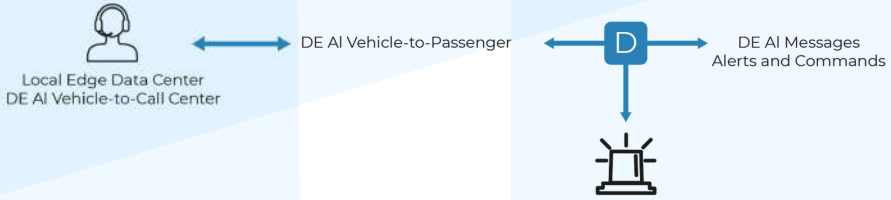
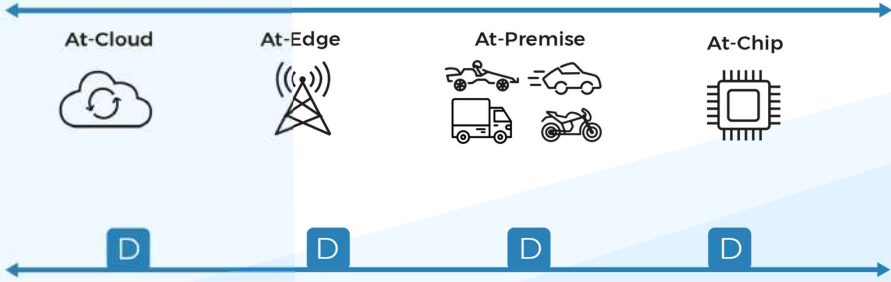
@Premise
@Edge
@Cloud



LOSSLESS - 12x FASTER - SUB 10MS LATENCY - OVER 600 SENSORS FUSED - 3M DATA POINT PER SECOND



End - to - End DynamoEdge Data Enrichment



Gateway System Features

High Performance & Compute
Rich Networking (CAN + Ethernet)
Realtime Analytics
Integrated LTE/ 5G Radio
Navigation + IMU sensors

Linux BSP + SDK
Cloud Enabled
OTA Service (Tessolve partner)
6V-36V Operating Voltage

Tessolve Edge Realtime Analytics

Technical Information			
Module Name	S32GB2-SMARC-SOM	Other Interfaces	4x I2C 2x UART 2x SPI 14x GPIO
Processor	S32G274A	Automotive Network	8x CAN 2x FlexCAN 4x LIN 1x FlexLIN 1x FlexRay
Memory	4GB LPDDR4 @3200 MT/s 32GB eMMC / SDIO 64MB QSPI	Operating Voltage Range	3.2 to 5V DC @3A
Ethernet	2x 10/100/1000 ports	Temperature Range	-40 Deg C to +105 Deg C
USB	1x USB 2.0 Host	Form Factor	82mmx50mm
SerDes subsystem with PCIe	2x supporting Gen3 in X1 and X2 modes		

Part Number - SOM	Description
M2A - S32G2-2G32G-IT	2GB RAM/32GB Flash (Temp: -40°C to +85°C)
M2A - S32G2-3G32-IT	3GB RAM/32GB Flash (Temp: -40°C to +85°C)
M2A - S32G2-4G32-IT	4GB RAM/32GB Flash (Temp: -40°C to +85°C)
M2A - S32G2-2G64-IT	2GB RAM/64GB Flash (Temp: -40°C to +85°C)
M2A - S32G2-2G64-AT	3GB RAM/64GB Flash (Temp: -40°C to +85°C)
M2A - S32G2-3G64-AT	3GB RAM/64GB Flash (Temp: -40°C to +85°C)
M2A - S32G2-4G64-AT	4GB RAM/64GB Flash (Temp: -40°C to +85°C)

TERA drAI.ve: Use case-based customization & deployment



Enclosure & Design Customization

Enclosure Industrial Design
Development & Prototyping, Tooling & Production

HW & SW Customization

Application Board
Linux BSP Customization
Cloud Application, OTA Service

Industrialization & Manufacturing Services

Regulatory Qualification
Volume Production
Life Cycle Support

Real Time Edge Analytics
Software Platform

