

DESIGNCORE™ TDA3x AUTOMOTIVE STARTER KIT



A benchtop Starter Kit that lets you evaluate embedded autonomous technology on an electronic platform designed with production in mind.

Benchtop Vision Platform with TI TDA3x Processor

SPEED DEVELOPMENT OF AUTONOMOUS VISION-BASED NAVIGATION SYSTEMS

The DesignCore™ TDA3x Automotive Starter Kit accelerates your development of autonomous vision-based navigation systems for automotive, transportation, materials handling, and robotic applications.

The Starter Kit is based on advanced vision processors from Texas Instruments and D3's advanced vision software framework. It enables synchronous acquisition of four HD video streams with real-time vision processing and analytics.

Developed using a design-for-manufacture (DFM) process, the Starter Kit has an optimized layout and BOM. With D3's design services, this Starter Kit lets you concentrate on your value-add and get to market faster.

FEATURES

- Texas Instruments TDA3x SoC Processor
- FPD-Link III video inputs (4)
- HDMI video display output
- HDMI video input
- Ethernet, CAN bus, and serial connectivity

APPLICATIONS

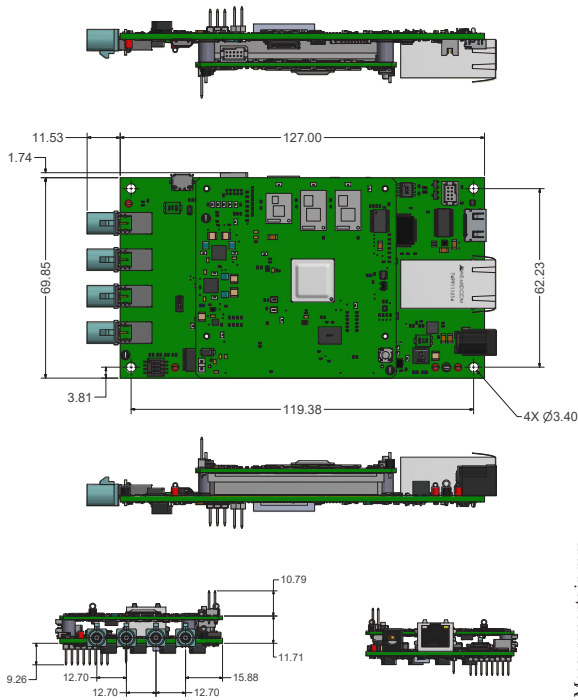
- Autonomous Driving Applications**
- Front or rear camera
- 2D/3D Surround View
- Radar
- Driver monitoring
- Camera monitoring systems
- Autonomous Shipping and Transportation Systems**
- Autonomous Guided Vehicles (AGV)**
- Collaborative Robotics**
- Industrial Vehicle Systems**

SPECIFICATIONS

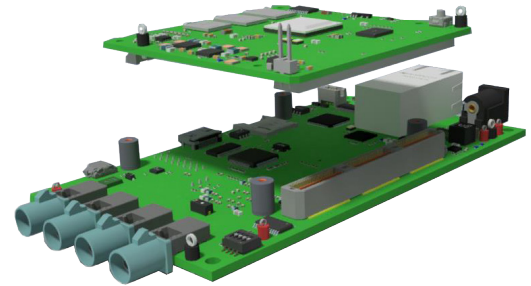
SoC	TI TDA3x
DDR	1GB + ECC
QSPI	512Mbit
FRAM (EEPROM)	512Kbit
Ethernet Gbit (DP83867)	1 standard RJ-45 port
Video/Data Input Ports	HDMI, CSI2 ADAS hub (4 ports)
Display Output	1 HDMI
CAN	1 port
UART (USB to UART bridge)	1 console, 1 expansion
uSD Card	1 SDIO
Buffered GPIO	2 in and 2 out
Component Temperature	0C to 70C commercial
Power (Input)	Standard 6V to 12VDC, barrel jack connection
Power (FPD-Link)	5V or Vbatt (jumper selectable)
JTAG	60 pin and 14 pin (adapter not included)
BSP	D3 software framework/TI BIOS Vision SDK
Expansion	I2C, UART, SPI 10th inch header
Access Panel	14 pin JTAG, UART, uSD card, HDMI
Lab Power Supply	12VDC, 2A
Accessory	Micro SD card



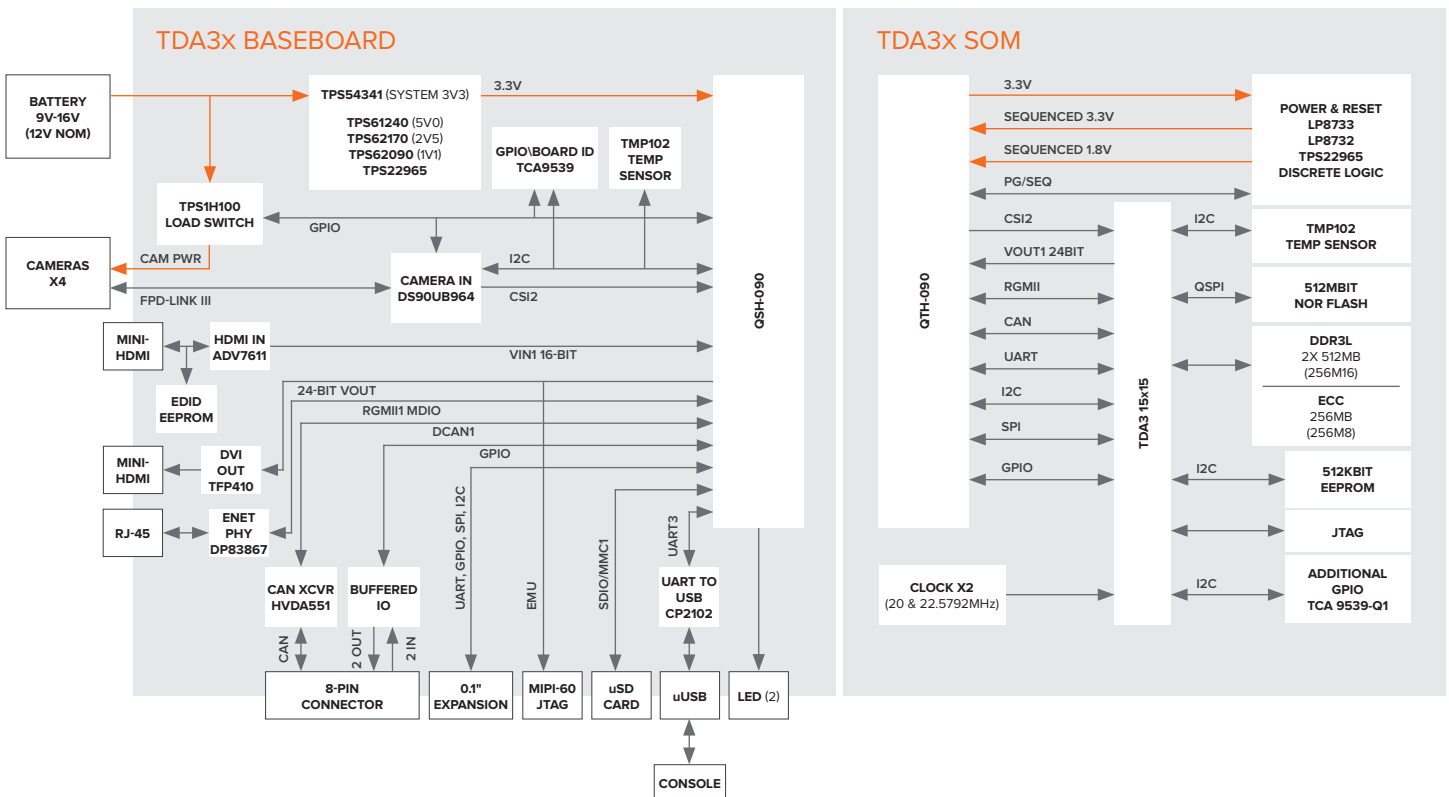
D3 Engineering is a platinum partner in the TI Design Network and a Premier Ecosystem Partner for automotive systems development.



Measurements in mm



The DesignCore™ TDA3x Automotive Starter Kit features an optimized SOM board with advanced vision processor, firmware, and a customizable baseboard with IO, power, video interface, and more. We use the Starter Kit to rapidly develop your Engineering Verification Test (EVT) unit, dramatically reducing technical- and schedule-risk.



ACCELERATE TIME TO MARKET

D3 Engineering will leverage our industry-proven DesignCore™ Platforms to meet your unique product requirements, while minimizing technical- and schedule-risk for your development program.

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