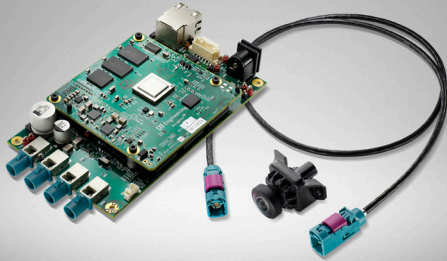


# DESIGNCORE™ DM50x INDUSTRIAL STARTER KIT



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 DM50x Processor

### SPEED DEVELOPMENT OF AUTONOMOUS VISION-BASED NAVIGATION SYSTEMS

The DesignCore™ DM50x Industrial Starter Kit accelerates your development of autonomous vision-based navigation systems for industrial, 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 DM50x SoC Processor

FPD-Link III video inputs (4)

HDMI video display output

Ethernet, CAN bus, and serial connectivity

D3 rugged camera module (1 MP FDP-Link III camera)

### APPLICATIONS

**Autonomous Driving Applications**

Front or rear camera

2D/3D Surround View

Radar

Driver monitoring

Camera monitoring systems

**Autonomous Shipping and Transportation Systems**

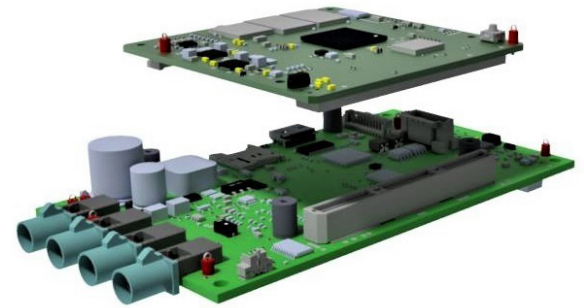
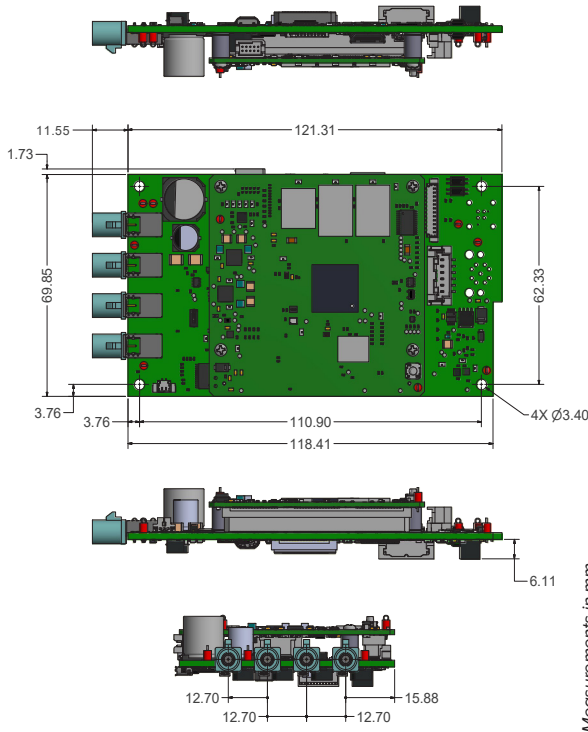
**Autonomous Guided Vehicles (AGV)**

**Collaborative Robotics**

**Industrial Vehicle Systems**

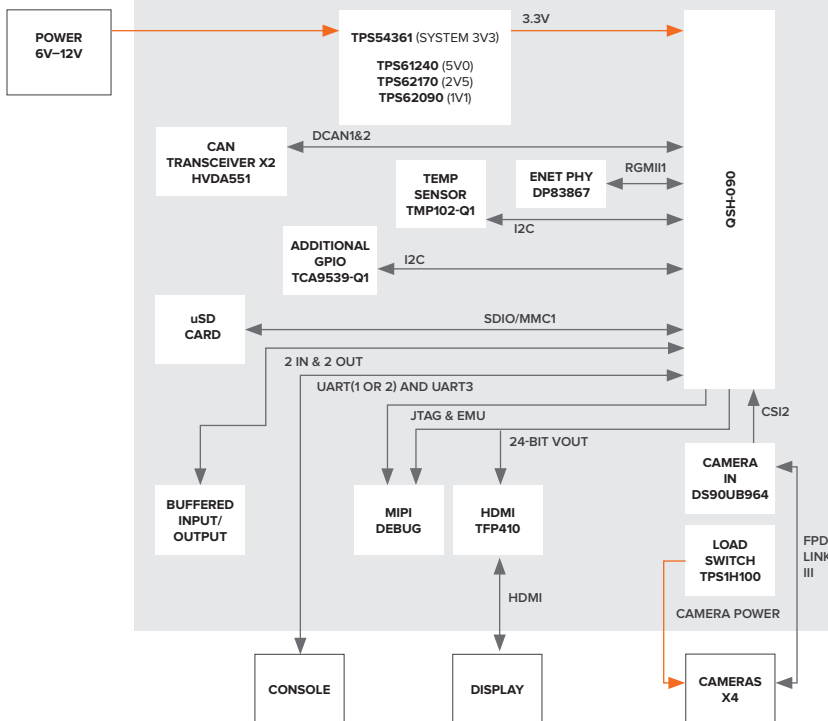
## SPECIFICATIONS

DDR	2GB + ECC
eMMC	none
QSPI	512Mbit
FRAM (EEPROM)	512Kbit
Ethernet Gbit (DP83867)	1
Video Ports Capture	CSI2 ADAS hub (4 ports)
Display	1 HDMI
CAN	1
UART	1 console, 1 expansion
uSD Card	1 SDIO
Buffered External IO	2 in and 2 out
USB	none
SATA	none
A15 Core(s)	none
DSP Core(s)	2
IPU/M4 Core(s)	1 with 2 CPUs
EVE Core(s)	1
ISS Core(s)	1
Ambient Temperature	0C to 70C
Component Temperature	0C to 70C
Power	6V to 12VDC
BSP	D3 software framework/TI BIOS Vision SDK
JTAG	60 pin and 14 pin with adapter
Access Panel	14 pin JTAG, USB/UART, uSD card, HDMI

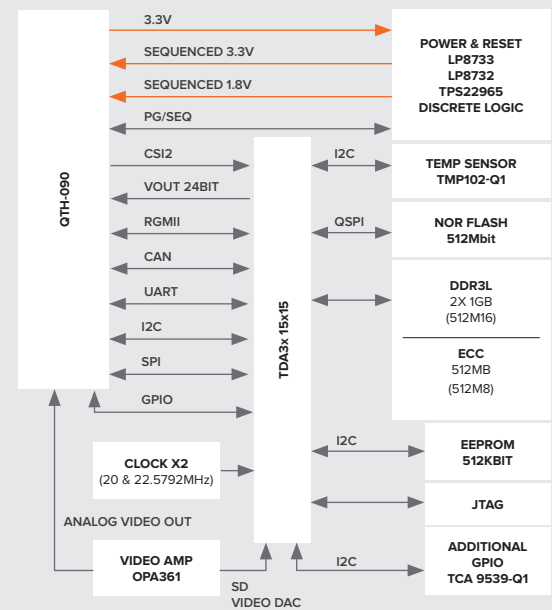


The DesignCore™ DM50x Industrial Starter Kit features an optimized SOM board with advanced vision processor, firmware, and a customizable baseboard with IO, power, video interface, and more. We use the Starter Kit to rapidly develop your Engineering Verification Test (EVT) unit, dramatically reducing technical- and schedule-risk.

### DM50x BASEBOARD



### DM50x SOM



## 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.

CALL: 1-585-429-1550

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VISIT: [D3Engineering.com](http://D3Engineering.com)