

# DESIGNCORE<sup>®</sup> RSP-TX2 DEVELOPMENT KIT



Deploy the power of NVIDIA<sup>®</sup> Jetson<sup>™</sup> processors in your autonomous or deep learning application

## Rugged Sensor Platform (RSP) with NVIDIA Jetson TX2 Processor

CONNECT MULTIPLE VISION AND SPATIAL SENSORS TO THE JETSON TX2 FOR DEPLOYMENT IN RUGGED SYSTEMS.

The DesignCore<sup>®</sup> NVIDIA Jetson TX2 Rugged Sensor Platform (RSP) provides six (6) high speed SerDes inputs for a variety of vision and spatial sensors. It speeds development of your autonomous and deep learning applications.

Wi-Fi<sup>®</sup>, Bluetooth<sup>®</sup>, Gigabit Ethernet and USB 3.0 interfaces are available for control and data offload. There are two (2) independent HDMI displays. SSD and eSATA expansion is available for hours of raw data storage capability.

The RSP's ruggedized enclosure and connectors make it ideal for deployment in the field.

D3 Engineering offers cameras, radar sensors, and software design examples to help you get started. D3 can also provide customization services to interface other sensors or create new Jetson-based designs to meet your requirements.

### FEATURES

- NVIDIA Jetson TX2 SOM
- 6x SerDes Input Channels  
FPD-Link<sup>™</sup> III or GMSL2
- 2x HDMI
- 1x Gigabit Ethernet
- 1x USB3
- Wi-Fi/Bluetooth
- Available SSD expansion

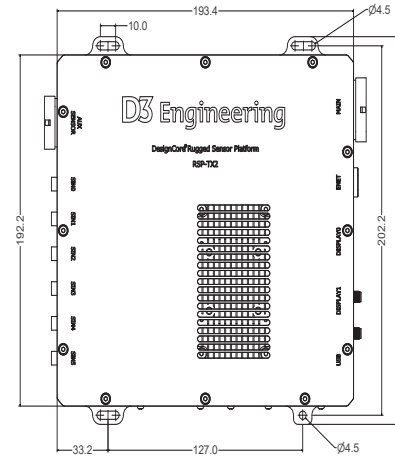
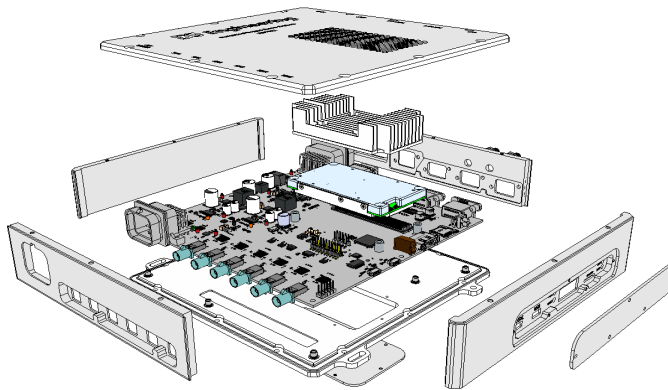
### APPLICATIONS

- Artificial Intelligence at the Edge
- Camera Monitoring Systems
- Industrial Vehicle Systems
- Machine Vision
- Robotics
- Autonomous Machines

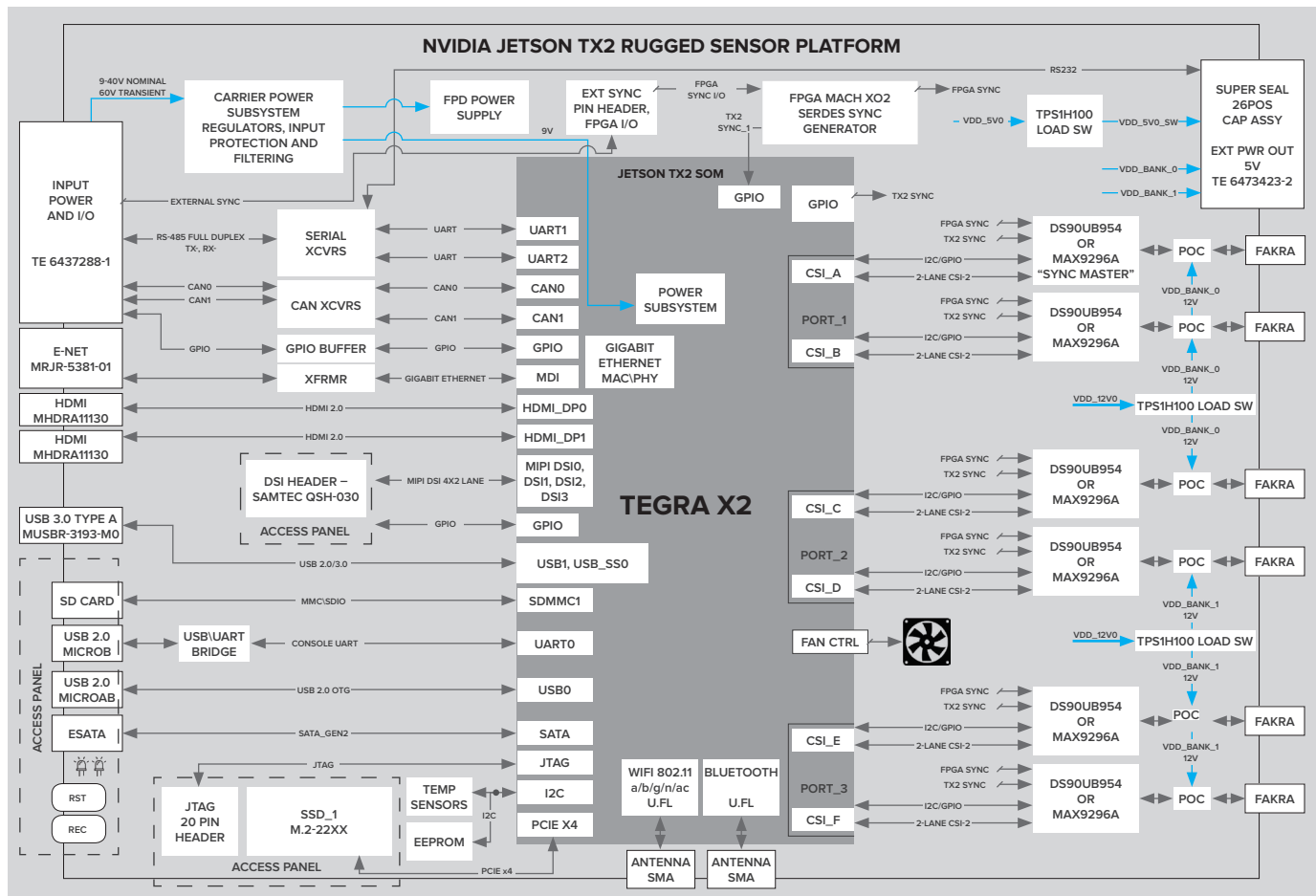
### SPECIFICATIONS

GPU	NVIDIA Pascal <sup>™</sup> , 256 CUDA cores
CPU	HMP Dual Denver 2/2 MB L2 + Quad ARM <sup>®</sup> A57/2 MB L2
DDR	8 GB LPDDR4
eMMC	32 GB
Inputs	6x FPD-Link <sup>™</sup> III or GMSL2 Coax (see ordering info)
Deserializers	TI FPD-Link <sup>™</sup> III: DS90UB954 Maxim GMSL2: MAX9296A
Coax Input Connectors	FAKRA 59S2AQ-40MT5-Z_1
Display	2x HDMI 1x DSI
Storage	SD card slot eSATA connection SSD M.2 slot
Data Transfer	1x Gigabit Ethernet 1x USB3 802.11ac WLAN Bluetooth
I/O Interfaces	Programmable logic for synchronization GPIO RS-485/RS-422 CAN RS-232 Console for debug
Power	9–40V DC with reverse battery protection
Operating Temperature	–20 to 85°C
Enclosure	Rugged aluminum, fan cooled





Measurements in mm



## ACCELERATE TIME TO MARKET WITH D3

D3 Engineering speeds embedded system development with our proven DesignCore® development platforms, camera and radar modules, and full-cycle embedded product development services. Our expertise in imaging system design and our status as an NVIDIA Jetson Preferred Partner will help you get to market faster, while reducing the risks and costs of new product development.

## ORDERING INFORMATION

### FPD-Link™ III input

SKU 1000878 | DesignCore® RSP-TX2 Development Kit

### GMSL2 input

SKU 1000872 | DesignCore® RSP-TX2 Development Kit

Buy online at <https://d3engineering.com/store>

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