

# T1CR-NX Miniaturized AI Development Kit

FOR NVIDIA® JETSON™ Orin Nano/NX



## HIGHLIGHTS

- › Compatible with NVIDIA Jetson Orin NX and Nano NX SOMs
- › 4K Video Display (HDMI 2.1)
- › Dual CSI-2 x4 lanes
- › Industrial IO options (UART, CAN Bus, Digital I/Os)
- › Extensive expansion capabilities (M.2 Key-E, M.2 Key-M)
- › High Speed Interfaces (Gigabit Ethernet, USB 3.1)
- › Robust power management
- › Wide voltage input range
- › Extended temperature environments

## TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Orin Nano 4GB / 8GB SOMs NVIDIA Jetson Orin NX 4GB / 8GB SOMs
Interfaces	2 x CSI-2 x4 Lanes 2 x USB 3.2 TYPE C 1 x CAN bus 3 x UART port 1 x RTC Battery 1 x PWM FAN 1 x Debug UART Port 3 x Input Pins 2 x Output Pins
Graphics Interfaces	1x HDMI 2.1 (max resolution 3840x2160)
Network	1 x M.2 Key E 1 x Gigabit (10/100/1000) - Extension Board
Power Supply	10 to 32 VDC @ 3A
Mass Storage	1x M.2 Key-M
Operating Temperature	-20°C to +70°C (-4°F to +158°F)
Form Factor / Dimensions	80mm x 60mm (3.31" x 2.86")
Weight	200g with Jetson Orin Nano/NX
JetPack Support	Jetpack 5.3

The T1CR-NX Miniaturized AI Development Kit is a compact and highly versatile solution designed for space-constrained environments requiring the advanced performance of Jetson Orin NX/Nano cards. Its modular architecture enables seamless customization of carrier and extension boards, allowing users to tailor interfaces and functionalities to their specific application needs.



Security  
Surveillance



Autonomous  
Vehicle



UAV