



Connect Tech Inc.
Embedded Computing Experts

Rosie

Product Name: Rosie
Part Number: ESG501

Connect Tech's Rosie is a small form factor, rugged embedded system based on the NVIDIA® Jetson™ TX1.

Housed in a compact enclosure with optional mounting brackets, Rosie features revolutionary NVIDIA Maxwell™ architecture with 256 CUDA cores delivering over 1 TeraFLOPs of performance with a 64-bit ARM A57 CPU.

Rosie's rugged system also provides USB, HDMI, 2x Gigabit Ethernet, WiFi, and Bluetooth capabilities. Custom face plates are easily accommodated using Connect Tech design services. Rosie is designed to MIL-STD 810g, DO-160G, and IP68.



Specifications

Processor	NVIDIA Jetson TX1, 1 TFLOP/s 256-Core
Memory	4GB LPDDR4
Storage	16GB eMMC
Weight	1.43kg (3.15lbs)
Display	1x HDMI Type A
USB	2x USB 2.0 Type A
Ethernet	2x Gigabit Ethernet (10/100/1000) RJ-45s
Serial	1x RS-232
Video Inputs	4 x Parallel or CSI-2/MIPI Camera Sensor Inputs via Coaxial Input on SMA (GMSL)
WiFi	IEEE 802.11 ac
Bluetooth	Bluetooth 4.0 (24Mbps)
Power Requirements	+9V to +36V
Design Rating	IP68 DO-160G MIL-810
Dimensions	Without Mounting Bracket: 163.6mm x 108.0mm x 96.3mm (6.438" x 4.250" x 3.790") With Mounting Bracket: 163.6mm x 146.1mm x 99.4mm (6.438" x 5.750" x 3.915")
Operating Temperature	-20°C to 80°C (-4°F to 176°F)

FEATURES

- ✓ 163.6mm x 108.0mm x 96.3mm
(6.438" x 4.250" x 3.790")
- ✓ 1x HDMI, 2x GbE, 2x USB 2.0, IEEE 802.11 ac,
1x RS-232, 4x SMA Video Inputs
- ✓ +9V to +36V Power Input
- ✓ Designed to MIL-STD 810g and
DO-160G for shock and vibration
- ✓ Designed to IP68 ingress protection rating
- ✓ Extended Temperature Range
-20° C to 80° C

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