

iEP-5010G-DCN

Industrial IoT Controller

Preliminary



KEY FEATURES

- Latest and Powerful Intel® Atom® x6425RE Processor (Elkhart Lake)
- Fan-less and Rugged Design
- -40°C to 70°C Wide Operating Temp.
- 6-36VDC Wide Range Power Inputs
- Most Flexible IOs and Expansion for Industrial Applications
- Intel® TCC and TSN Support for Real-Time Computing
- DIN Rail or Wall mounting (option)
- 4 x Intel 1G LAN
- 1 x Intel 2.5G LAN
- Support Intel® IN-Band ECC

SPECIFICATIONS

System Core

Processor	Intel Atom® x6425RE, 4C, 1.9GHz, 12W(Elkhart Lake Platform)
Video	1 x HDMI 2.0b
Memory	2 x DDR4 3200MHz SO-DIMM, 32GB (In-Band ECC)

I/O Interface

Ethernet	2 x Intel® I210-IT (RJ45 8P8C) 1 x Intel® I226-IT, Support TSN (RJ45 8P8C) 2 x Intel® I210-AT
Serial Port	2 x RS-232/422/485 (9-pin D-sub connector)
USB	2 x USB 3.2 Gen2

Manageability / Security

Manageability	WDT, Intel® In-Band Manageability
Security	TPM2.0

Power Supply

DC Input	1 x 3-pin pluggable terminal block (Phoenix type) for 6 to 36V DC input - OVP, UVP, OCP, plus 80V surge protection
AC to DC Adaptor (Option)	AC input 100-240Vac, 1.5A 50-60Hz, DC output 19V, 3.42A, 65W Adaptor

Storage Device

M.2 Socket	1 x M.2 2280 NVMe SSD, Key M, PCIe Gen3 x2, 128GB
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Mechanical

Dimensions	58mm (W) x 125mm (D) x 157mm (H)
Indicator	1 x SATA / NVMe Storage LED, 1 x Wi-Fi / BT LED 2 x Diagnostic LED
Function	Power on Button with LED, Clear CMOS Button
Net Weight	1.3 kg
Mounting (Option)	DIN-Rail or Wall mounting

Environmental

Operating Temperature	-40°C ~ 70°C (-40°F~158°F) (w/ airflow 0.8m/s)
Storage Temperature	-40°C ~ 85°C (-40°F~185°F)
Humidity	~95% @ 40°C (non-condensing)
Vibration	Operating: 5 Grms, 5-500 Hz, 3 axes with SSD
ESD	Contact +/-6 KV, Air +/-15 KV
Shock	Operating 100G, half sine 11 ms duration with SSD
Altitude	+3000m
EMC	CE (EN 61000-6-4, EN 61000-6-2) FCC Class A
Safety	UL/cUL 610101-1, UL/cUL 61010-2-201 CB IEC 610101-1, IEC 61010-2-201 IECEX UL C1D2 ATEX Zone 2
Environmental protection	EIA-364-65A, Class IIIA (with G3 conformal coating)

Add-on Feature / OS Support

Real-Time Enablement	TSN, TCC support under Ubuntu (only LAN1)
OS Support	Windows 10, Ubuntu 22.04 LTS