

Main Features

- ♦ AI Inside for automatically diagnose
- ♦ Automatic diagnose in 24/7
- ♦ Application target: DELTA, SCARA, articulated robot
- ♦ Easy installation setup
- ♦ One-to-one installation
- ♦ IoT connective

Product Overview

Predictive diagnostic maintenance is the last mile of industrial IoT. PDM300-RBT built with AI inside for automatically diagnose; it is one-to-one easy installation and suitable for DELTA, SCARA, Articulated Robot. Eliminated the support from an expert, PDM300-RBT measures the similarity, dynamic frequency and action threshold of the robot movement and predictive potential risk ahead. PDM300-RBT not only helps to reduce the downtime and net loss of production but also help to well management the IoT industrial production line.

Specification

Application

- ♦ DELTA
- ♦ SCARA
- ♦ Articulated robot

SW Specification

- ♦ AI Automatically diagnose
- ♦ Self-learning up to 300 seconds
- ♦ Auto detect from any point of robot operation
- ♦ Up to 10 sets of inspection specification setting
- ♦ Setup of environmental interference elimination
- ♦ 5 Level alarm setting
- ♦ Max. action threshold setting
- ♦ Limited frequency tolerance setting
- ♦ Abnormal dynamic similarity alarm identification
- ♦ Abnormal dynamic action alarm identification
- ♦ Abnormal dynamic frequency alarm identification
- ♦ Historical data tracking
- ♦ Log file for AI analysis
- ♦ AIoT connectivity

HW Support

- ♦ Build-in Intel® Core™ i3 CPU
- ♦ Build-in 4G DDR4 SO-DIMM
- ♦ Build-in 128G SSD
- ♦ 2 x COM
- ♦ 4 x USB 3.0, 2x USB 2.0
- ♦ 3 x LAN
- ♦ 1 x DVI-D
- ♦ 1 x HDMI
- ♦ 24V DC Input

Power Requirement

- ♦ AT/ ATX power mode (default with ATX power mode)
- ♦ Power input: typical 24V DC, with reverse polarity protection
- ♦ Power adapter: optional AC to DC power adapter (24V DC, 120W)

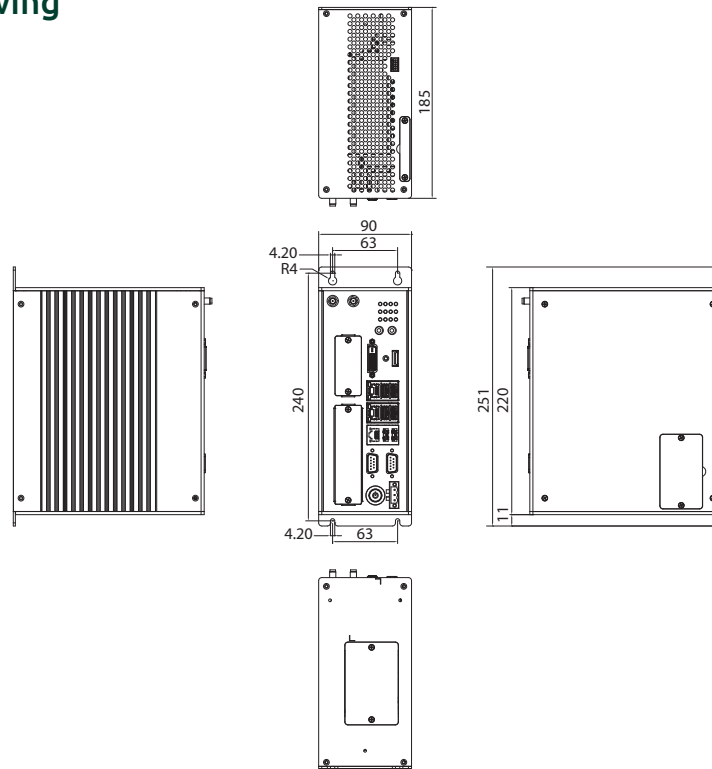
Dimensions

- ♦ 90 mm(W) x 185mm (D) x 251mm (H)

Weight Information

- ♦ 1.2 KG

Dimension Drawing



Construction

- ♦ Aluminum and metal chassis with front access design

Environment

- ♦ Operating temperature:
 - Ambient with air flow: -5°C to 55°C (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- ♦ Storage temperature: -20°C to 85°C
- ♦ Relative humidity: 10% to 93% (non-condensing)
- ♦ Shock protection:
 - HDD: 20G, half sine, 11ms, IEC60068-27
 - CFast: 50G, half sine, 11ms, IEC60068-27
- ♦ Vibration protection w/ HDD condition:
 - Random: 0.5Grms @ 5~500 Hz, IEC60068-2-64
 - Sinusoidal: 0.5Grms @ 5~500 Hz, IEC60068-2-64

Certification

- ♦ CE approval
 - EN61000-6-2
 - EN61000-6-4
- ♦ FCC Class A
- ♦ LVD

Package

- ♦ 1 x NIFE 300 system
- ♦ Windows 10 OS inside (pre-installed)
- ♦ Robot PDM inside (pre-installed)
- ♦ IoT Studio (pre-installed)
- ♦ 1 x Accelerometer
- ♦ 1 x Magnet base

Ordering Information

- ♦ **PDM300-RBT_34D_D1SW (P/N: 10PDM300RBTXR)**
Robot Predictive Diagnostic Maintenance