DEX-100

Edge IoT PC-based Data Extraction Solution

Features

- Unifies legacy equipment protocols to a standard and scalable interface via VGA/DVI output
- Non-intrusive metrology retaining original equipment stability
- Customized operation screen enhances, clearly identifying production information
- Intuitive script generation for customized requirements, speeding up deployment



Introduction

ADLINK's DEX-100 Edge IoT data extraction system with built-in frame grabber utilizes optical character recognition (OCR) to collect and process legacy PC-based display content, converging traditionally fragmented data extraction methods into a unified solution for all types of PC-based machines.

An easy-to-configure utility maps acquired real-time video content with no additional programming required, and provides a user configuredl interface consolidating machine content of interest into a single predefined page.

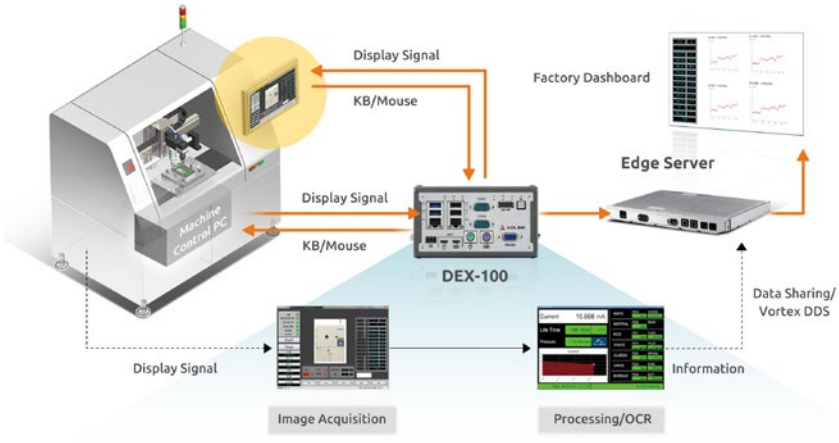
The singularly effective interface extends M2M function with integration of devices such as barcode scanners and sensors, and simultaneous sharing of all collected data for distribution to anywhere in the network, based on Vortex Data River architecture in real-time, enhancing reliability and efficiency. Remote control of pre- categorized IO-status, alarm, and data writing enable both horizontal and vertical OT/IT convergence.

Ordering Information

- **DEX-100/WS10IOT**
  Edge IoT PC-based data extraction system for legacy machines with display port , support WIN10
  *System with other OS support , by request

Accessory package

- KB port External cable
- MS port External cable
- External VGA cable
- External USB cable
- AC/DC ADAPTER 40W
- DP to VGA cable



Specifications

- **Data extraction via Optical Character Recognition (OCR)**
  - Up to 500 tags
  - Up to 30 extraction pages
- **Script Generation**
  - Over 50 script commands supported
  - Online and offline scripting supported (with offline reducing machine interference)
  - Pre-configured script loading for script deployment
- **Data extraction and user full machine control modes switchable by user via hard or soft control**
- **Event notification of machine alarm/warnings**
- **Data extraction summary page supports up to 500 rows of data**
- **Local Log File retained for up to 120 days**

Model Name	DEX-100
System	
Processor	Quad-Core Intel Atom® processor E3950
Operating system	Windows 10 IoT Enterprise 64
RAM	DDR3L 1066 4GB/8GB
Storage	128GB SSD
I/O Interface	
	2x GbE LAN (Intel® I210-IT)
	2x COM (2x RS-232/422/485)
	2x USB 2.0 + 2x USB 3.0 + 2x Micro USB-Type B
	2x PS/2 input+2x PS/2 output
	2x isolated DI
	Display port
Power Supply	
DC Input	12-36 VDC
AC Input	Optional 40 W AC-DC adapter
LED indicator	Power/storage/WDT
Mechanical	
Dimension	140 (W) x 110 (D) x 80 (H) mm / 5.5(W) x 4.3 (D) x 3.1(H) inch
Weight	< 1kg
Construction	Full Aluminum Alloy
Mounting	Wall mount, DIN-rail
Communications	
Communication protocol	DDS (Distributed Data Service), REST API(Xml and JSON)
Field bus support	Modbus TCP/Modbus RTU
Environment & Electrical	
Operating Temperature	Standard: 0 to 50°C
Storage Temperature	-40°C to 85°C
Humidity	approx. 95% @40°C (non-condensing)
Vibration	Operating 5 Grms, 5-500Hz, 3 axes w/ SD/ SSD
ESD	SSD ESD Contact +/-4 KV, Air +/-8 KV
Shock	Operating 100G, half sine 11 ms duration w/ SD/mSATA SSD
EMC	CE & FCC Class A (EN610006-4/EN61000-6-2)
Safety	UL by CB
Target Machine's PC Requirements	
Supported Operation System	Windows 7, Windows NT, Windows XP, Windows Vista, Windows 10, Windows 8, Windows 95/98, DOS, Sun OS, MAC OS X, UNIX, LINUX
Supported Machine Output Display Resolution (VGA)	VGA (640 x 480), VGA (720 x 400), SVGA (800 x 600), XGA (1024 x 768), XGA (1152 x 864), CEA 720P (1280 x 720), WXGA (1280 x 768), WXGA (1280 x 800), SXGA (1280 x 1024), Wide (1366 x 768), SXGA (1400 x 1050), WSXGA (1440 x 900), UXGA (1600 x 1200), WSXGA (1680 x 1050), CEA 1080P (1920 x 1080)
Supported Machine Output Display Resolution (DVI)	VGA (640 x 480), SVGA (800 x 600), XGA (1024 x 768), XGA (1152 x 864), CEA 720P (1280 x 720), WXGA (1280 x 768), WXGA (1280 x 800), SXGA (1280 x 960), SXGA (1280 x 1024), Wide XGA (1366 x 768), WXGA n (1360 x 768), WXGA (1440 x 900), UXGA (1600 x 1200), WSXGA (1680 x 1050), 1080p (1920 x 1080), 1200p (1920 x 1200)

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