

Vision Guided Robotics Solution in Food and Beverage Industry

Increased Productivity and Flexibility in Robotic
Pick-and-Place Process Machines

ESRP-VAI-TPCB500



Edge
Solution Ready
Package

- Sensor to Software Total Solution
- Direct Communication with External Devices for Inline Production Applications
- Compact and Fanless Control HMI with Flexible Modular Design



Edge Solution-Ready Package

ESRP-VAI-TPCB500



Sensor to Software Total Solution

Integrated with industrial sensors, a processor, HMI and application software to accelerate time to market.



Direct Communication With External Devices for Inline Production Applications

Direct communication between system and external devices such as position sensor, robots, NC, PLC, Motion control systems, and database for inline production applications .



Compact and Fanless Control Panel With Flexible Modular Design

Powering 6th Gen Intel® Core™/Celeron® processors. Interchangeable and forward compatible panel and computing box supports two independent video interfaces with picture-in-picture function and up to 100m long signal transmission distance (iLINK technology)

Hardware Features	
	ESRP-VAI-TPCB500-P3 ESRP-VAI-TPCB500-P7
Processor	Intel® Core™ i3-6100U, 2.30GHz Dual Core Intel® Core™ i7- 6600U, 2.6GHz Dual Core
Memory/Storage	8GB DDR/ 128G SSD
Form Factor	Active cooling with touch panel
Dimensions (WxHxD)	269 x 203 x 58.5 (box computing only)
Panel	Interchangeable Front display modules (Optional) 4:3 - 12.1", 15" and 17" 16:9 - 15.6", 18.5", 21.5" and 24"
Peripheral I/O	3x RJ45, 10/100/1000 Mbps 2 x USB 3.0; 2 x USB 2.0
Camera Interface	2 x GigE Vision 4 x GigE Vision
Digital I/O	16 x Isolation DI (optional); 16 x Isolation DO (optional)
Power Consumption	27W typical, 90W max.
Environment	Operating Temperature: 0 - 50°C Vibration:1Grms; Shock:10G
Certification	CE, FCC, UL, CCC, BSMI

Software Features	
Compatibility	GigE Vision; USB Vision
No. of cameras	Up to 4 cameras
Type	Camera, image file input
Mode	Software, hardware trigger
Resolution	Up to 5.0 mega pixel
Color Format	Mono, bayer pattern
ROI	Rectangle, polygon, ellipse, circle, ring, pie
Identification	1D bar code, data matrix code, QR code, O.C.R
Alignment	
Gauge	Line, circle, angle, arc, pitch
Inspection	Spatial domain, frequency domain preprocessing
Sequence	Switch case, Loop, if else
Operator	AND, OR, NOT, XOR, addition, subtraction, multiplication, division
Data format	String, numeric
Protocol	TCP/IP, PLC
History	CSV file, image file, statistical analysis
Digital I/O	Trigger input, digital output, lighting control

Ordering Information

ESRP-VAI-TPCB500-P3	2-CH Industrial panel PC with VisionNAVI. 6th Gen. Intel® Core™ i3 Processor.
ESRP-VAI-TPCB500-P7	4-CH Industrial panel PC with VisionNAVI. 6th Gen. Intel® Core™ i7 Processor.