Perceptor IoT for Zebra

A Global Print Revolution

Zebra ZT610 Perceptor IoT brings together the king of the thermal print industry with Perceptor's innovative label inspection and verification solution, Perceptor IoT.

Perceptor IoT provides all the label inspection and verification features needed for production in both compliant and non-compliant industries accessed through one intuitive application. Eliminating errors, delays and manual processes, Perceptor IoT globally connects multiple printers and manufacturing sites to one secure segregated database.

With data security, integrity and availability at its core, Perceptor IoT auto-configures through the user licence and requires no specialist technical knowledge to integrate with the Zebra ZT610. Taking control of your print process, Perceptor IoT inspects every label in real-time to ensure print quality is maintained and duplicates are eliminated.
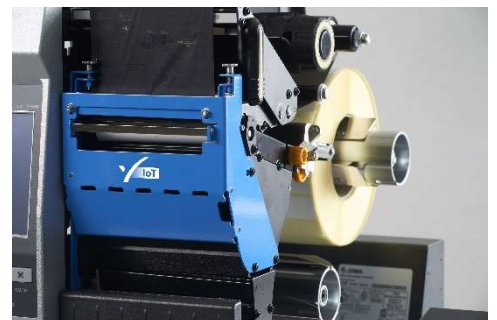
Perceptor IoT – at a glance

- Latest Microsoft .NET 9 technology
- Security and compliance using OAuth 2.0, TLS 1.3 encryption, self-signed certificates, secure customer key vaults
- Entra ID single sign on
- Subscription and Lifetime OnPremise solution
- Web based management console
- Attended and Unattended print inspection modes
- Code grading, OCR/OCV, pattern match, print blemish and GS1/MILSTD 130 validation
- SOC2 compliance
- Real-time Sentinel threat monitoring
- Scalable global solution

Zebra Perceptor IoT Product Specifications

Perceptor IoT

- Print Methods: Thermal transfer and direct thermal printing
- Print Modes: Tear-off, rewind, peel and present
- Media Types: Continuous, die-cut, notch, black-mark
- Maximum Media Thickness: 3.5mm
- Inspection types: ISO 15415/15416 code grading, OCR/OCV, pattern match, print blemish
- Inspection Fonts: Latin based Arial, Cambria, Consolas, OCR-B
- Barcodes:
    - 1D – Code 128; EAN-8; EAN-13; UPC; 2of5 Interleaved; Code 39; Code 39 Extended; Code 93; Databar; Databar Limited; Pharmacode
    - 2D – DataMatrix; GS1 DataMatrix; QR Code; Dot Code;
- Smallest X-dimension: 6mils/0.15mm
- Smallest character height: 1.5mm
- Construction:
    - Printer - Metal frame and bi-fold metal cover
    - Camera assembly – Metal frame with height adjustment
    - IoT Device – Metal frame
    - Camera interface housing – Metal frame
- Camera Assembly Fixing: 4 x existing screws on printer (no modification required)

Printer

Printer	Zebra ZT610
Printer resolutions	203/300/600 dpi
Minimum print and scan width	0.79"/20mm
Maximum print and scan width	4.09"/104mm
Maximum print and scan speed	10 ips/254mm per second at 300 dpi 6 ips/152mm per second at 600 dpi
Media width	0.79"/20mm to 4.4"/112mm
Further details	[ZT600 Series Industrial Printers Specification Sheet	Zebra](#)

Perceptor IoT Device

Dimensions	241mm x 203mm x 110mm
Display	7" Touch Display Capacitive IPS 178-degree visual angle 1024 x 600 high resolution Response Time: ≤16ms Surface Hardness: 6H
Operating System	Windows 10 IoT Enterprise LTSC
Memory	8GB RAM and 64GB eMMC
Storage	64GB
Connections	USB 1 x 3.2 Gen2X1 USB 2 x 3.2 Gen1X1 USB-C x 1 HDMI 2.0b Gigabit Ethernet
Input power	5V DC

Dimensions	128mm x 20.8mm x 13mm
Scanning width	108mm
Resolution	600 dpi
Sensor elements	2592 pixels
Type	Mono
Light source	Red 630nm +/- 15nm
Light angle	45 degrees
Focal length	2.0mm +/- 0.2mm
Digital output	USB 3.0
Power input	+5V 3A

Perceptor recommends always qualifying any application with thorough testing.

IoT

Perceptor IoT

The secure, scalable, globally connected print inspection and verification solution.

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