

MxP Vision Kiosk Technical Specifications

FEATURES	
Product Name	MxP Vision Kiosk
CPU Support	Core i7, Tiger Lake UP3, i7-1185G7E
Memory	32GB DDR4
Max System Memory Supported	Up to 32 GB
Max Video Memory Support	Up to half of system memory
Sockets	2 SO-DIMM
NVRAM Support	128 GB PCIe NVMe M.2 SSD serves as NVRAM when used with TCx Sky V1R3
Storage	512GB SSD
Audio	Side access headphone/mic port back head unit
Lighting	EDGEpad Customer Guidance Right Light Integrated Product Halo LED
Speaker	1 - Internal Speakers
Customer Facing Camera	TCx EdgeCAM ID Biometric Camera
Top Down 3D Camera	Intel D435 (82635AWGDVKPMP 962305)
Top Down Camera	5 MP Fixed Focus, USB2 supporting USB UVC protocol, MJPEG and YUY2 file formats
Left Side Camera	5 MP Fixed Focus, USB2 supporting USB UVC protocol, MJPEG and YUY2 file formats
Right Side Camera	5 MP Fixed Focus, USB2 supporting USB UVC protocol, MJPEG and YUY2 file formats

Ethernet	Intel Gigabit Ethernet (Native) Integrated Intel WiFi 6E AX210 (Gig+) + Bluetooth 5.2 (Optional) USB Wifi Adapter (Optional)	
Fixed Connectors (system)	1x RJ45 10/100/1000 Ethernet 2x USB-C 2x USB3 Gen 2 2x USB2 2x 12v PUSB 1x HP/Mic Flex Port: 1x choice of Flex Ports - CD Flex Port - 1x 24v Power In, 1x RJ11 Cash Drawer, 1x 24v PUSB - RJ45 Flex Port - 1x 24v Power In, 1x RJ45 10/100/1000 Ethernet, 1x 24v PUSB	
Power Connector options (Stand or Hub)	USB Mix 2X USB 2.0 - 3x Powered USB (12V) -1x Powered USB (24V) -1x USB-C -2x Cash Drawer (SDL)	RJ45 Mix - 4x Powered RS-232 - 1x USB-C - 1x Cash Drawer (SDL) - 1x Powered USB (12V) - 1x Powered USB (24V)
Primary Display	- 19.5" (16:9 or 9:16), - PCAP Multi-touch Technology - Back-lit LCD - 10 point PCAP multi-touch	
Secondary Display	7" PCAP, 1280x600, USB-C and USB-C DP Alt Mode	
Controls/Indicators	-Power SW/LED - Brightness +/- - Activity LED - Dump Switch	
BIOS	AMI	
TPM Support	TPM2.0	
Power Supply	180W	
Ingress Protection Rating	IP53 (IP52 with peripheral installed)	

PERIPHERALS (OPTIONAL)

Installable	Transactional Awareness Light
External	Hand Scanner, Pinpan, Printer (Pwr), TCx M1

Dual Frequency Card Reader	
Smart Card Reader with CCID and Keyboard Wedge Interface	13.56 MHz HF and 125kHz LF

Edgecam ID Biometric Camera		
	RGB Camera	IR B/W Camera
AGC/AEC/White Balance	Auto	Auto
Mimumum Resolutions	8 MP	1920 x 1080 (1080P)
Sensor Orientation	Portrait	Portrait
Shutter Type	Electronic Rolling Shutter	Electronic Rolling Shutter
HFOV (Minimum)	71.2 Degree Without Distortion	76 Degree Without Distortion
IR LED	N/A	904 nm IR Band
Image Color	Color	Black and White
Type of Focusing	Manual/Fixed Focus	Manual/Fixed Focus
Video Stream Format	MJPEG, YUY2	MJPEG, YUY2
Supported OS	Windows, Linux, Android	Windows, Linux, Android
Microphone	Stereo Microphone	
Interface	A single USB 2.0/USB 3.0 connection to a POS machine, supports USB UVC and UAC protobols	

Important Note: TCx EDGEcam ID can pre-process the image or perform low-level AI (face detection, eye-tracking and gesture controls) but requires 3rd party software to implement.

EDGEPad Features		

Camera Key Components

Component	Part Number	Description
SOC	Sigmaster SAV605	Main SOC
Edge AI SOC	Altek AL8100	M1 Chip - Neutral network engine
RGB Camera Sensor	OV8856	3264 x 2488 (8 MP), 1.2um, 1/4", rolling shutter
RGB Camera Lens	TA8V58Z	F2.0, DFOV 83.3°, HFOV 71.2°, VFOV 56.4°
IR Camera Sensor	OS02G10	1920 x 1080 (1080P), 2.8um, 1/2.9°, rolling shutter
IR Camera Lens	E3794A	F2.1, DFOV 84°, HFOV 76°, VFOV 47°, 940nm band filter
IR LED	Lextar LX PR27T11 V1 60D	940nm
Blue LED	LTST - C193TBKT - 5A	465 - 475 nm
White LED	LTW - C193TS5	42k

3D Camera Features

	RGB Camera	Depth Sensor
AGC/AEC/White balance	Auto	
Maximum Resolution	2MP	1280 x 720
Shutter Type	Rolling Shutter	Global Shutter
HFPV	69 degrees	87 degrees
VFOV	42 degrees	58 degrees
Type of Focusing		Manual/Fixed Focus
Supported OS		Windows, Linux, Android
Video Stream Format		MJPEG, YUY2
Interface		USB 3.1 Gen1

Operating System	Supporter (Y/N)	Support POS Drivers	Preload (Y/N)
TCx Sky V1.3	Y	Y	N
TCx OS for Android 12.0	Y	Y	Y
Windows 10 IoT Enterprise LTSC 2021 64 bit	Y	Y	Y
Windows 10 IoT Enterprise LTSC 2019 64 bit	Y	Y	Y
Linux Kernel 5.8 Enablement (x64)	Enabled	Y	Y
ELERA Security Suite			

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