

Element CA255W

15.6" POS Touch Terminal



The Element **CA255W** is a next-generation 15.6" all-in-one POS terminal designed for performance, durability, and versatility. With a True-Flat PCAP touchscreen, Intel® Elkhart Lake processors, and a modular I/O design, it delivers the flexibility to power high-performance retail and hospitality environments with ease.

Crafted with a precision-engineered frame and a modern minimal aesthetic, the CA255W combines fanless reliability, multiple expansion options, and quick-swap M.2 SSD architecture — ensuring optimal uptime and serviceability. Its compatibility with Windows 11 IoT, Linux, and Android 13 makes it a future-ready solution for hybrid deployments.

From bustling cafés to multi-terminal enterprise rollouts, the CA255W is engineered for quiet performance, seamless integration, and long-term dependability — reflecting the Element standard of **Design. Quality. Purpose.**



- > 15.6" True-Flat PCAP multi-touch display (1920 × 1080)
- > Intel® Elkhart Lake J6412
- > Fanless architecture for silent, reliable operation
- > Easy-swap M.2 SSD for rapid servicing and upgrades
- > Comprehensive I/O with USB-A, USB-C, RS232, LAN, and Powered USB options
- > Modular peripheral support: MSR, Fingerprint and Customer Display
- > Optional 11.6" secondary display for dual-screen engagement
- > Flexible OS support: Windows 11 IoT, Linux, Android 13
- > Dual mounting options with "ready-made" stand or VESA 100 × 100

Technical Specifications - CA255W POS System

Item		Parameter
System	Motherboard	F35
	Processor	Intel® Elkhart Lake Celeron J6412
	Memory	8GB DDR4
	Storage	128GB SSD M.2
Expansion	M.2 (M Key)	1
Display	Size and Resolution	15.6" 1920 x 1080
	Touch Screen	True-Flat PCAP multi-touch
I/O Ports	USB Type-A	2x USB3.0, 4x USB2.0
	USB Type-C	1x USB3.0 full-functioned (DP/PD 5V/3A, 12V/3A)
	FeDP	1x proprietary miniDP (for 2nd display)
	Serial Port	3x RJ48 (standard RS232) (default 0V; 5V,12V)
	LAN	1x RJ45
	Cash Drawer	1x RJ11
	DC Jack	1x 4PIN (with latch)
Optional I/O	Powered USB	2x Powered USB 12V 1x Powered USB 24V
Audio	Internal Speaker	1 x 3W (Option)
Indicator	Power Button	1
Power	Power Adapter	65W/19V (120W/19V with 2x PUSB12V & 1x PUSB 24V)
Communication	WLAN + BT	802.11 series + BT5.2 (Option)
Peripheral (option)	MSR	3-Track MSR (USB)
	Fingerprint	Fingerprint Reader (USB)
	iButton	iButton (USB)
	2D Scanner	2D Scanner (USB) (*project-based)
	Customer Display	LCM display 2 x 20 characters (USB)
	2 nd Display	11.6" 2nd Display
Certificate	EMC & Safety	FCC Class A, CE Mark, LVD
Environment	Operating Temperature	0°C ~ 35°C (32°F ~ 95°F)
	Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
	Humidity	20% ~ 85% RH non-condensing
Dimensions	W x H x D	369 x 310 x 230 mm (14.5" x 12.2" x 9.1")
Mounting	VESA Mount	100 x 100
OS Supported		Windows 11 IoT Enterprise, Linux, Android 13.0

*Product specifications and data are subject to change without notice (E&OE)