

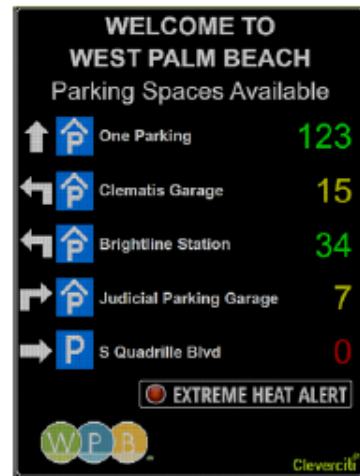
CLEVERCITI SIGN

Multi-Purpose Dynamic LED Messaging

The Cleverciti Sign with Front Service is a fully dynamic, high resolution LED messaging sign for all on- and off-street parking areas. It offers intelligent navigation and real-time parking guidance information to users as live data changes. The Cleverciti Sign is also the perfect choice for special event messaging, emergency alerts, and advertising.

Front service panels provide an enhanced level of installation and maintenance convenience, with simple access for maintenance or panel exchange.

Content can be managed remotely in CleverPortal. Available in a wide range of sizes.



FEATURES:

- Accurate, real-time parking guidance
- Fully dynamic, high-resolution displays
- Dynamic message signage (DMS) 
- Optimal viewing angles
- Character heights for any application
- Brightness managed by light sensor and CleverPortal, for optimal visibility
- Navigation to destinations
- Front panel access for convenient maintenance
- Managed and monitored remotely by CleverPortal
- Easy installation on existing infrastructure

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Technical Specifications

RELIABILITY

WORKING TEMPERATURE	-4°F / -20° C to 140° F / 60°C
WORKING HUMIDITY	10%-90% RH
LED LIFETIME	100,000 Hours
OUT-OF-CONTROL PIXEL RATE	≤0.01 %

GENERAL

CONNECTIVITY	LTE, LAN, or WIFI
PROTECTION GRADE	IP65 (front), IP54 (rear)

DISPLAY PARAMETERS

STANDARD MOUNTING BRACKET	Center- or offset-mounted on single pole (diameter 6.1 to 9.0 cm & 9.1 to 21.0 cm) Custom brackets available by request
MINIMUM SIZE	75 cm x 50 cm (29.5 in x 19.6 in)
ADDITIONAL SIZE STEPS POSSIBLE	+25 cm in height or width (9.84 in)
ADDITIONAL SPACE FOR FRAME	0 cm on all sides (frameless design)
DISPLAY DEPTH	12 cm (4.7 in)
BRIGHTNESS	6000 nits (cd/m²)
BEST VIEWING DISTANCE	≥7 m
VIEWING ANGLE	140° (horizontal and vertical)
DISPLAY COLORS	16.7 million (24-bit color)
BRIGHTNESS ADJUSTED	by light sensor, configurable in CleverPortal
OPERATION POWER	AC 100 – 240, V 50-60 Hz Switchable
AVERAGE POWER CONSUMPTION	180 watts/m²
PEAK POWER CONSUMPTION	820 watts/m² (all white, full brightness)
FRONT SERVICE ACCESS	Yes (enables easy maintenance)
CABINET MATERIAL	Aluminum
WEIGHT	Approx. 35kg per m² + 33 kg per sign for installation hardware (exact weight for specific sign size available upon request)

MODULE PARAMETERS

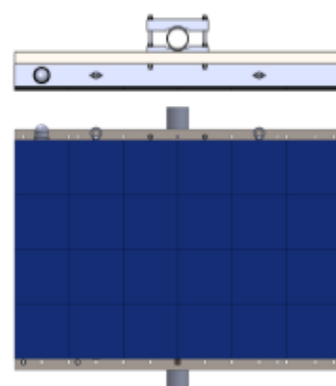
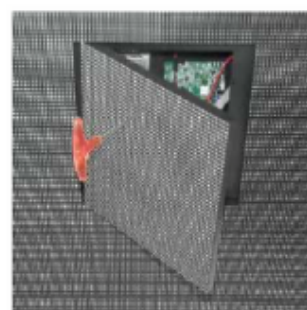
MODULE TYPE	LED
RESOLUTION/PIXEL PITCH:	0.481 cm (0.19 in)
PIXEL CONFIGURATION:	SMD1921
DENSITY	43,264 pixels/m²
MODULE RESOLUTION	L: 52 pixels; H: 52 pixels
MODULE DIMENSION	L: 25 cm; H: 25 cm; D: 1.8 cm (L: 9.8 in; H: 9.8 in; D: 0.71 in)
DRIVING MODE	Constant current, 1/6 scan mode
MODULE MASK	Pure black mask – high contrast screen

Custom sizing is also available upon request. The number of lines is based on a standard line of text being up to 18 cm high. As fully digital signs, in addition to lines of text, the sign is also capable of showing visual maps and images – custom template design is available upon request.

Examples:

150 cm x 50 cm (59 in x 19.7 in) (W x H) - 312 pixels x 104 pixels
150 cm x 100 cm (59 in x 39.4 in) (W x H) - 312 pixels x 208 pixels
150 cm x 150 cm (59 in x 59 in) (W x H) - 312 pixels x 312 pixels

150 cm x 75 cm (59 in x 29.5 in) (W x H) - 312 pixels x 156 pixels
150 cm x 125 cm (59 in x 49.2 in) (W x H) - 312 pixels x 260 pixels
150 cm x 200 cm (59 in x 78.4 in) (W x H) - 312 pixels x 416 pixels



Enclosure (2)

Vienna BAR – Exterior Parking Guidance Displays / Monument Signs

Site: Navy Federal Credit Union HQ Campus (Vienna, VA)

Purpose: Provide BAR-ready lumen, Kelvin/CCT, and control notes for exterior sign/display submittal.

1) Display / Sign Face Geometry

HQ1 Display: 150 cm x 125 cm (59.0 in x 49.2 in), Resolution: 312 x 260 pixels, Face Area: 1.875 m²

HQ2 Display: 150 cm x 150 cm (59.0 in x 59.0 in), Resolution: 312 x 312 pixels, Face Area: 2.250 m²

2) Lumen Output – Per Sign (Per Sign Face)

Assumed Sign Face Luminance	HQ1 – Estimated Lumens per Sign Face	HQ2 – Estimated Lumens per Sign Face
Daytime luminance cap (reference) (5000 nits)	29,452 lm	35,343 lm
Night luminance cap (reference) (500 nits)	2,945 lm	3,534 lm
Night luminance cap (conservative example) (300 nits)	1,767 lm	2,121 lm
Night luminance cap (near-residential example) (100 nits)	589 lm	707 lm

Notes on calculation: Estimated lumens are derived from sign-face luminance (nits = cd/m²) and face area using a Lambertian approximation: Total lumens = $\pi \times \text{luminance} \times \text{area}$. Use manufacturer photometric data to confirm final values. If the sign is double-sided, multiply the per-face lumen value by 2 to report total per sign cabinet.

3) BAR Compliance Notes (Lighting / Controls)

- Provide 'Lumen level of proposed sign after installation' per sign (not per linear foot); watts are not acceptable.
- Provide color temperature (Kelvin/CCT) for any white illumination elements (cabinet/backlighting) as $\leq 3000\text{K}$, or provide foot-candle measurements per Town guidance.
- Provide automatic dimming control (photocell / ambient-light sensor) to reduce brightness at night and minimize glare and light spill.
- Document measurement method: specify where lumen/brightness values apply (per face vs per cabinet) and include manufacturer cut sheet(s).

4) Submittal Attachments – Quick Checklist

- Scaled, dimensioned color rendering(s) showing sign in proposed location
- Cross-section detail showing cabinet/letter depths and raceways
- Installation details (foundation or façade mounting)
- Site plan / as-built marked with monument sign locations
- Photos of existing site conditions + adjacent properties
- Material/color samples per Town requirements

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