# eXplore

**eXplore-C7|eXplore-C10**

## INTRODUCTION

The next generation Cylon **eXplore graphical interface** is an Internet of Things (**IoT**) touch-screen solution that is scalable and secure, able to control, monitor and manage future-ready smart buildings. The **eXplore** touchscreen display allows users to securely access, view and engage with operating parameters of the entire enterprise portfolio of buildings or a single controller.

The IP connected display can be configured to showcase the entire building ecosystem enabling easy interaction with Cylon's:

- ASPECT® Control Engines (**NEXUS** and **MATRIX Series**)
- **INTEGRA™** Series (**INTEGRA-Supervisor** and **IT-8000**)

Enhanced graphics for a rich user experience are available when an **eXplore** device is connected to any **ASPECT Control Engine**. ASPECT provides preconfigured enhanced designs and operational efficiencies through an automatically generated HTML5 interface which means that no additional configuration or development is required.

When connected to Cylon's **CBXi Series** of BACnet® IP controllers, the display automatically provides pre-configured **SiteGuide** views of the points in the controller.

With **eXplore,** the user can easily manage operating parameters of the connected systems: monitoring values, equipment and system status, viewing trends and active system alarms to perform diagnostics and take corrective actions such as overriding or setpoint adjustments.

## APPLICATION

The **eXplore** display is typically used for:

- Control and monitoring of buildings across an enterprise's portfolio.
- Supervision and servicing of a single site or single controller.
- Control, monitoring and servicing of connected HVAC equipment such as central plants, boiler rooms or air handlers.

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Allwinner® V40 QuadCore, Cortex™ A7 1GHz Processor with 1GB DDR3 RAM, 8 GB EMMC Flash

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Integrated 10/100 Mbps networking resulting in increased speed and enabling fast response

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Full HD Resolution - 1920 X 1080

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Integrated Wi-Fi support

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Edge-to-edge patented IP65 front with silicon seal for the harshest environment installation

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10-Finger Multi-Touch, Anti-Glare, Capacitive Color Touch Panel capable of HTML5 graphics and supports Pinch, Zoom and Multi-touch Gestures

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Available in two sizes (7" or 10.1")

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Panel mount using supplied bracket or install on a wall using a suitable VESA 75 mount

# SPECIFICATIONS

## MECHANICAL

| | eXplore-C7 | eXplore-C10 |
|---|---|---|
| IP rating | IP65 Front<br>IP40 Back | IP65 Front<br>IP40 Back |
| Net weight | 1 kg / 2.2lb | 2 kg / 4.4 lb |
| Gross weight | 2.00 kg / 4.4 lb<br>(incl. carton) | 2.90 kg / 6.4 lb<br>(incl. carton) |
| Housing<br>L × W × H | 195.6 mm × 137.6 mm × 37.5 mm<br>7.7" x 4.4" x 1.5" | 276.0 mm × 192.0 mm × 37.5 mm<br>10.9" x 7.6" x 1.5" |
| Mounting | VESA 75 | VESA 75 |
| Surface Hardness | 7H | |
| Housing material | Rubber front case, ABS back case | |

## Environment

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|---|---|
| Operating Temperature | -10°C … 60 °C / 14 °F … 140 °F |
| Humidity Range (RH) | 10 % … 90 % |

## Power

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|---|---|
| Power Supply (included) | 100 … 240 V AC / DC active switching<br>12 V DC Out<br>Adaptors included for the following<br>countries: UK/Ireland, USA, Europe |
| Operating voltage | 12 V DC |
| Power Consumption | eXplore-C7: 8 W<br>eXplore-C10: 11 W |
| Stand-By Consumption | < 1 W |

## Screen

| | eXplore-C7 | eXplore-C10 |
|---|---|---|
| Screen diagonal | 7" / 177.8 mm | 10.1" /256.5 mm |
| Display active screen size | 154 mm × 90 mm<br>6.00 in x 3.54 in | 217mm × 136 mm<br>8.54 in x 5.35 in |
| Aspect ratio | 16:09 | 16:10 |
| Physical resolution | 1024 × 600 | 1280 × 800 |
| Colours displayed | 262K | 16.7M |
| Brightness | 500 cd/m² | 350 cd/m² |
| Visual Angle horizontal/vertical | 150° / 145° | 170° / 170° |
| Typical reaction time Tr/ Tf | 10 ms / 15 ms | |
| Backlight / Backlight Lifetime | LED / 20,000 hours | |
| Contrast | 700:1 | |
| Touch Technology | Projected Capacitive 10-point Multitouch | |

## System

| | |
|---|---|
| CPU | Allwinner® V40 QuadCore, 1GHz, Cortex™ A7 |
| Graphic GPU | ARM® Mali400 Mp2 Complies with OpenGL ES 2.0/1.1 |
| Audio | Integrated HI-FI 100dB Audio Codec Dual analog mic,<br>2x6W amplifier, 1x Amplifier for 2x 6W loudspeaker |
| Memory | 1x 1GB DDR3 |
| Storage | 8GB EMMC Flash |
| Network | 10/100 Mbit Network; W-LAN |
| Pre-installed OS | Android 6.0 |

eXplore
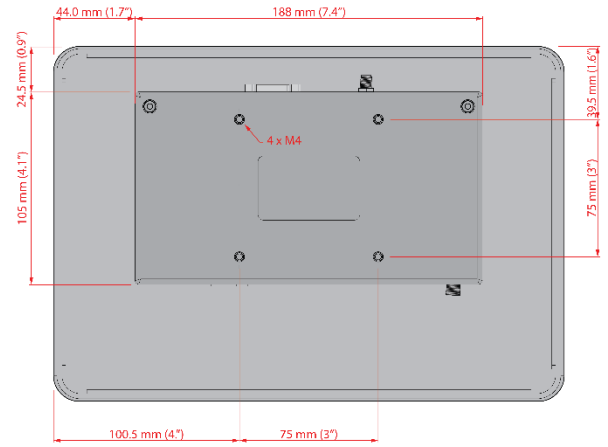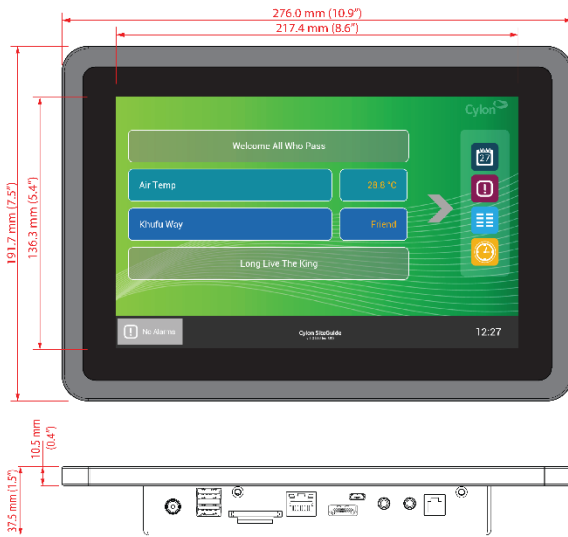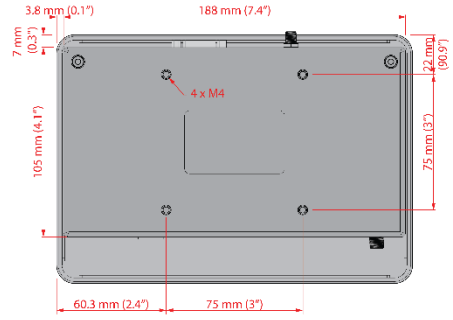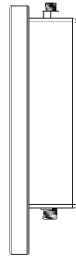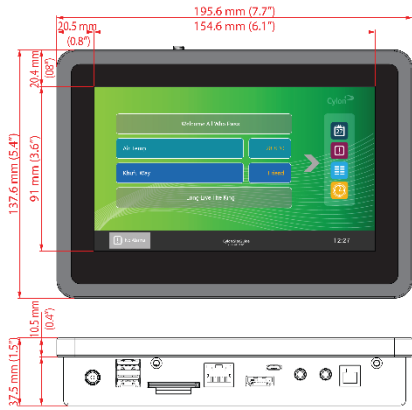


## DIMENSIONS

# SYSTEM ARCHITECTURE