TECHNICAL DATA SHEET
DS0126 rev 13

Cylon® eXplore

DESCRIPTION

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**)
- **CBXi** Series or **Unitron UC32.net** (Version 2)

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.

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

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

Full HD Resolution - 1920 X 1080

Integrated Wi-Fi support

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

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

Available in two sizes (7" or 10.1")

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

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SPECIFICATIONS

MECHANICAL

	eXplore-C7	eXplore-C10
IP rating	IP65 Front IP40 Back	IP65 Front IP40 Back
Net weight	1 kg / 2.2lb	2 kg / 4.4 lb
Gross weight	2.00 kg / 4.4 lb (incl. carton)	2.90 kg / 6.4 lb (incl. carton)
Housing L × W × H	195.6 mm × 137.6 mm × 37.5 mm 7.7" x 4.4" x 1.5"	278.0 mm × 203.6 mm × 33.3 mm 10.9" x 8.0" x 1.3"
Mounting	VESA 75	VESA 100
Surface Hardness	7H	
Housing material	Rubber front case, ABS back case	

ENVIRONMENT

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

POWER

Power Supply (included)	100 … 240 V AC / DC active switching 12 V DC Out Adaptors included for the following countries: UK/Ireland, USA, Europe
Operating voltage	12 V DC
Power Consumption	eXplore-C7: 8 W 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 6.00 in x 3.54 in	217mm × 136 mm 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, 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

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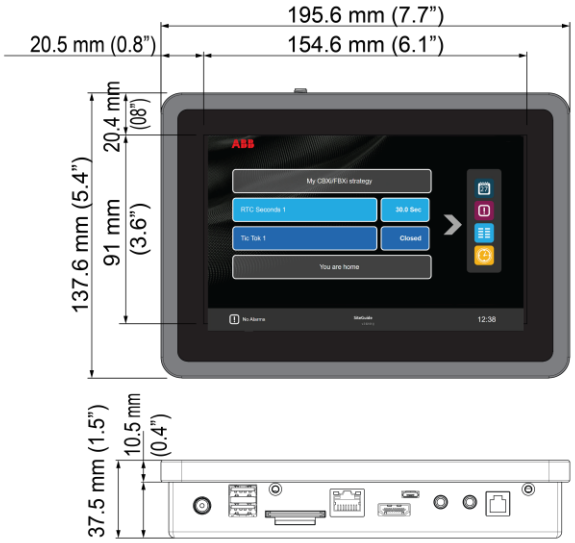
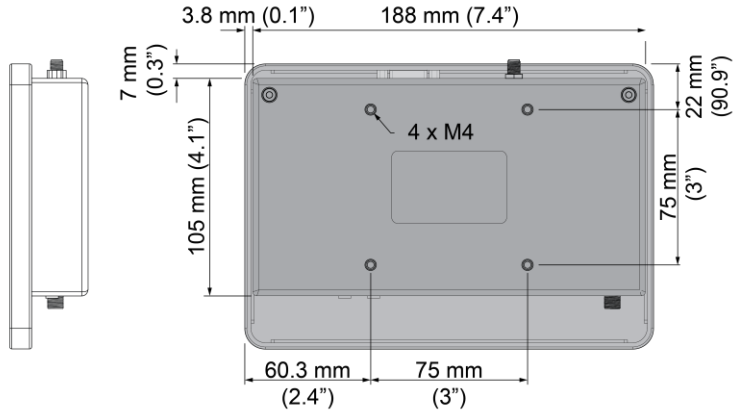
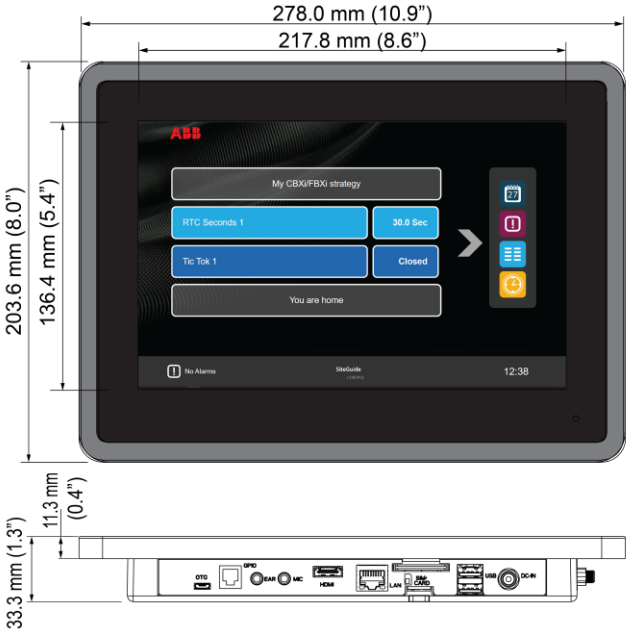
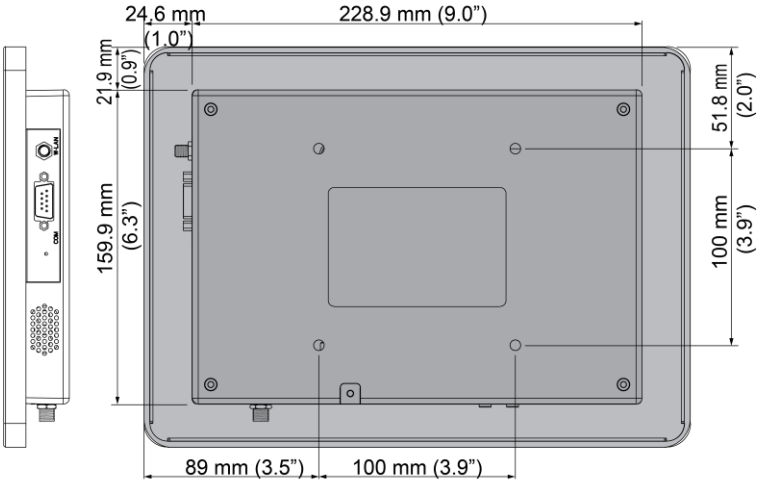
DIMENSIONS









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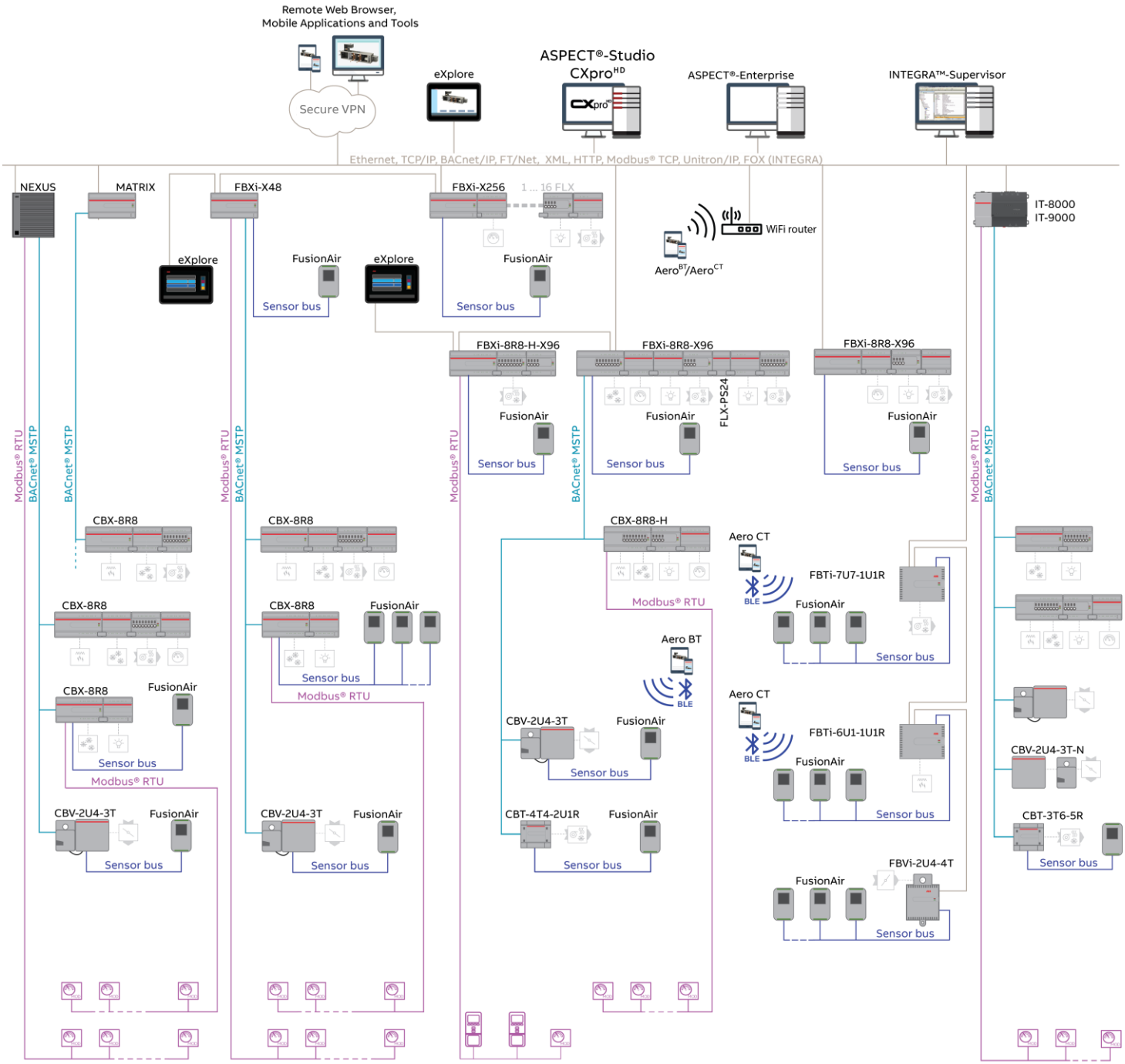
SYSTEM ARCHITECTURE



FBXi / CBXi-8R8 / CBX-8R8

CBXi-8R8-H / CBX-8R8-H

CBV-2U4-3T

FLX-8R8 / FLX-4R4 / FLX-16DI

FLX-8R8 -H

FLX-4R4-H

FLX-PS24

CBT-4T4-2U1R

FBVi-2U4-4T

NEXUS Series

MATRIX-2 Series

INTEGRA Series

eXplore

FusionAir Smart Sensor

CBT-STAT

UCU Room Display

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