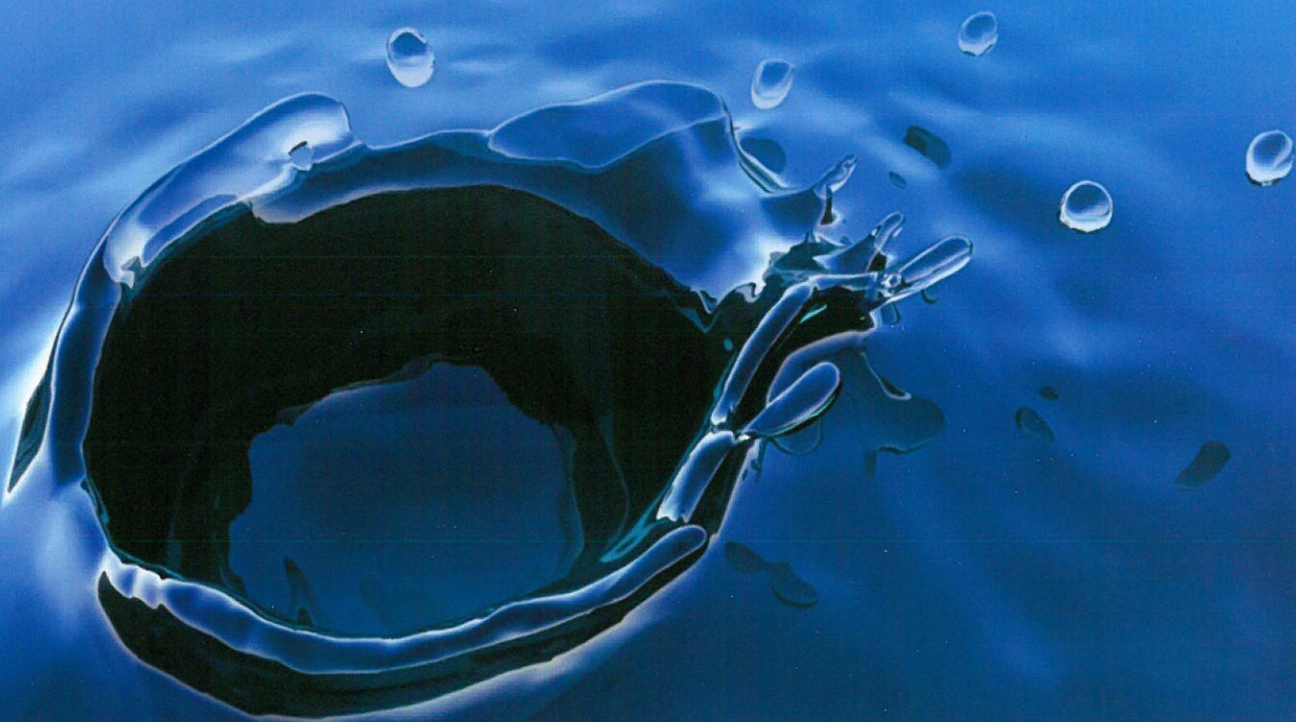


HITACHI
Inspire the Next

Open
System | Architecture



Open System Architecture Solution

Whether you are installing the highest-performing Category copper cabling or fiber optic infrastructure, there are a number of well-known brands available to choose from. What makes one brand a wiser choice than another? Which one offers maximum performance, while also providing the best value?

Open System Architecture (OSA) from Hitachi Cable America (Hitachi) provides world class performance using virtually any combination of Hitachi verified cables with verified connective hardware in the design of the network. The ANSI/TIA-568-C.1 standard specifies the performance requirements of all network components and defines interoperability base-line limits to ensure that combinations of cable with connectivity will meet or exceed the system's intended application. By employing a Hitachi OSA solution, end users have the freedom to choose from a wide range of quality connectivity products that best meet their specific needs and be confident that the chosen solution will support all applications designed to operate over that solution and be backed by an industry-leading lifetime warranty*.

Hitachi Open System Architecture

- Provides for standards-based verifiable cable performance
- Enables a range of connectivity options
- Opens up competitive solution offerings
- Delivers substantial benefits to the end user



It's all in the Cable

In virtually all cable based communication links, it is the cable that determines the ultimate performance of that link. It is the cable, not the connectors, that establishes how well the applications that run over it will be supported. This is the reason why many cable manufacturers make different performance levels of Category 6 cable while jack and plug manufacturers make only one jack or plug to mate to them. The desirable headroom that results from the link is provided by the cable. With a growing list of applications for Category 6, many of them critical to a facility's operation, selecting a quality cable from an established manufacturer is recommended. Additionally, with an increase in counterfeit and unestablished brands flooding the market, protect your investment by sourcing only through trusted distribution channels.

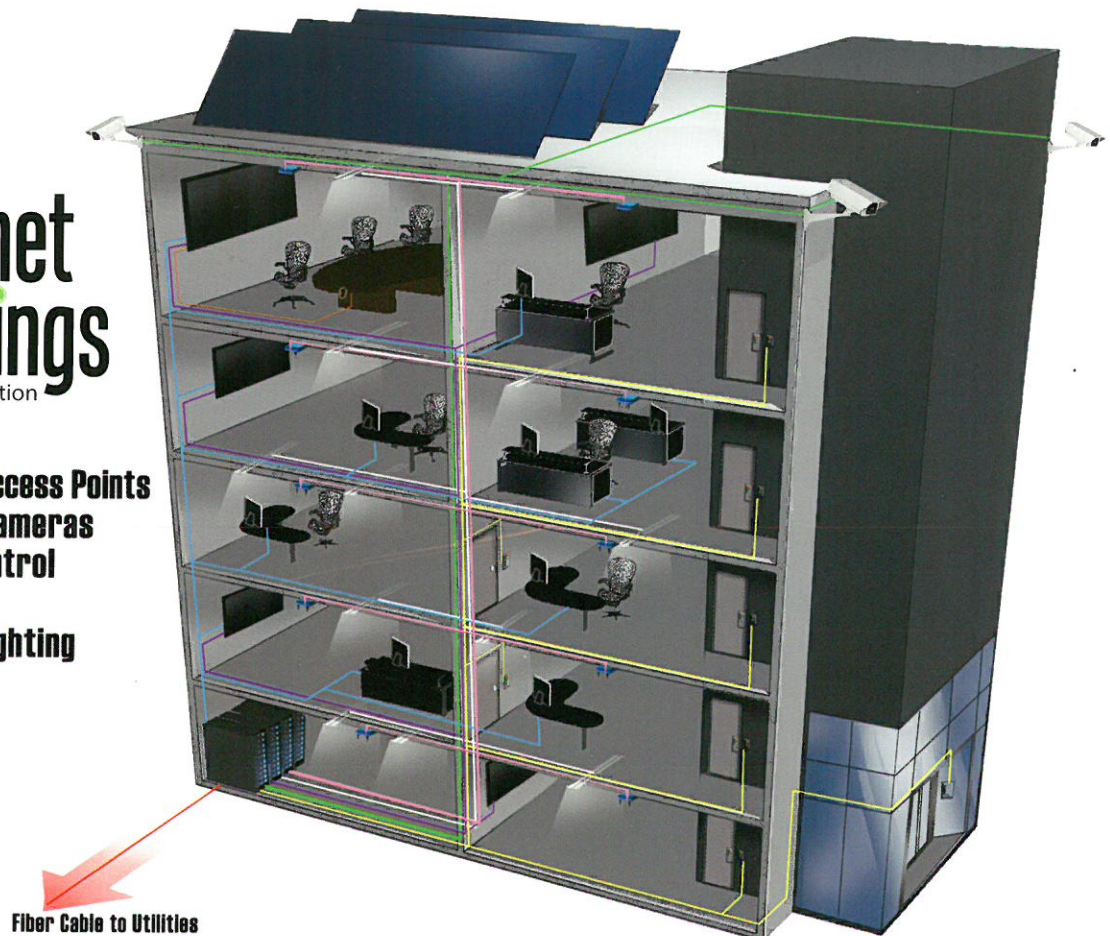


*Certification as a Hitachi Installer is required to offer lifetime warranty.

Beyond-The-Link Building Systems



- Wireless Access Points
- Security Cameras
- Access Control
- Data
- IP Based Lighting
- HDBaseT
- HDMI
- FIBER



Cable is Key!

- Cable is the highest cost component of passive infrastructures
- Cable determines margin of performance headroom in the link and channel
- Cable vendor should be lead warranty provider

Hitachi Lifetime Certificate of Warranty and the Internet of Things

- Provides single point of contact
- Offers lifetime application assurance and extended product warranty
- Enables the solution can be expanded beyond the link to include other building cabling systems
- Can consolidate and offer a warranty umbrella to include different connectivity manufacturer products on the same structured wiring system
- Warranty lasts as long as the owner occupies the facility





Hitachi Cable America Inc.

Located in Manchester, New Hampshire, Hitachi Cable America's (HCA) 300,000 square-foot facility produces over 4,500 unique cable constructions. HCA has been manufacturing cables at this facility since 1986 and operates 24/7 to supply demand. In addition to producing network related cables, HCA builds cables for the medical industry, the cellular phone industry, industrial applications, supercomputing and more.

Other Products from Hitachi Cable America:

- Shielded Category 5e, 6, 6A Cables
- Category 7 & 7A Cable
- Fiber Optic Cables (indoor, outdoor & armored)
- NanoCore™ Fiber Optic Cables
- Industrial Ethernet Cables
- Coaxial & Mini-coaxial Cables
- Distributed Antenna System Cables
- Round & Ribbon Electronic Cables



HCA is proud to use Corning Optical Glass in all standard fiber optic cable constructions.

plus
CORNING®
ClearCurve® Optical Fiber

For more information about Open System Architecture, please contact us.

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Inspire the Next

Hitachi Cable America Inc.

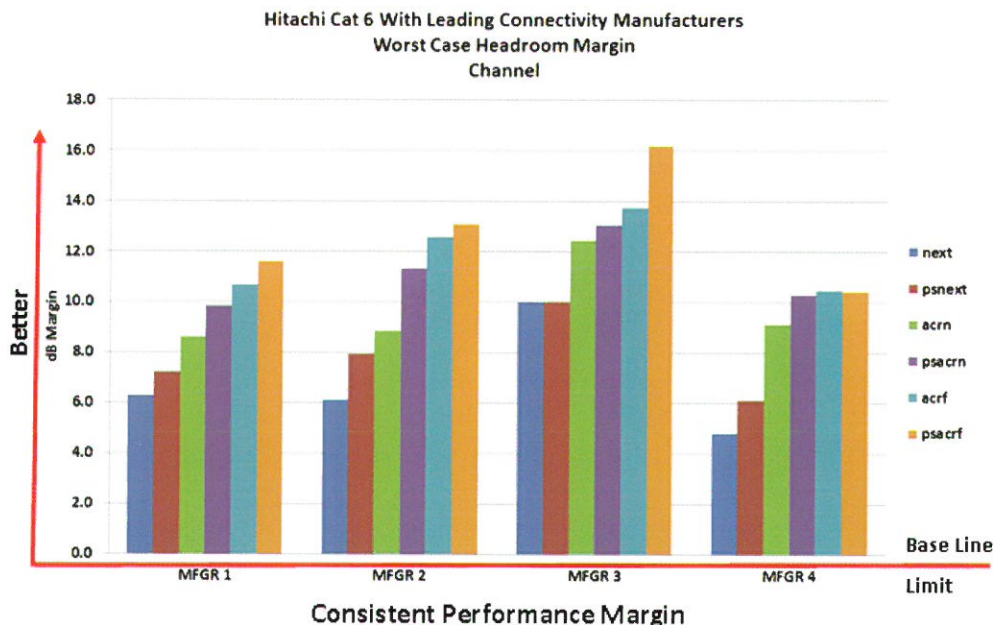
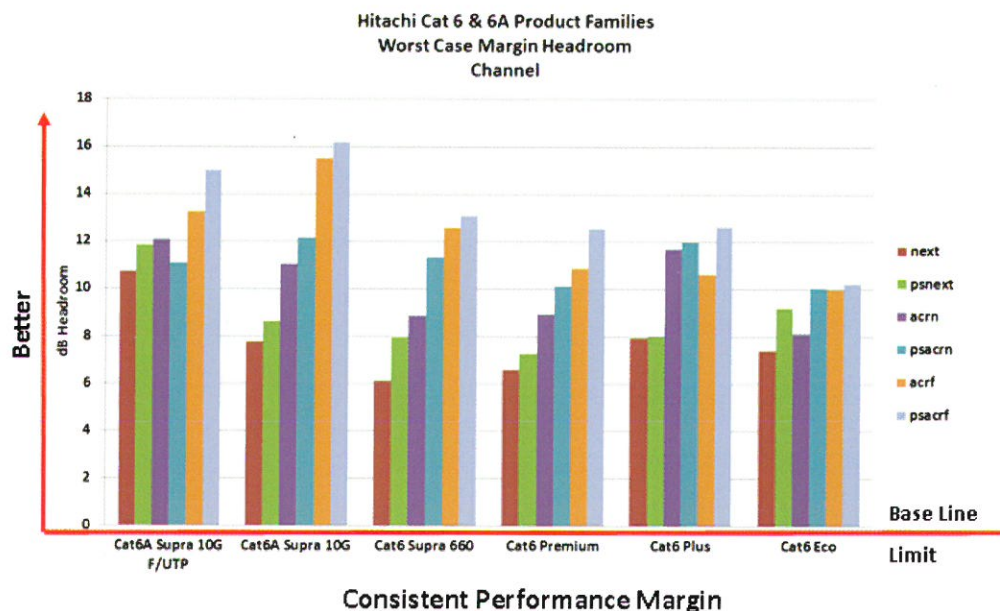
Hitachi Cable America Inc.
900 Holt Ave, Manchester, NH 03109 USA
+1.603.669.4347 Fax: +1.603.669.9621
www.hca.hitachi-cable.com



Third Party Link and Channel Testing

- Hitachi's entire product family provides a high margin of performance headroom
- Cables will enable the user to have choices selecting from a wide range of leading connectivity products that will meet and surpass performance link and channel standards

These charts demonstrate consistent performance margin across the entire Hitachi Category 6 and 6A product family when the cables are mated to leading connectivity brands. A channel test meeting the "0" (zero) base-line limit would be in compliance with the standard's requirement. The enhanced performance that all Hitachi cables deliver allows freedom of choice for system decision-makers on which connectivity brand to use. All tests were performed at Intertek / ETL.





OPEN SYSTEM ARCHITECTURE SOLUTION BENEFITS

End User –

- System assurance to support future moves-add-changes
- Provides for future consideration of different and new connectivity product introductions
- Neutral focal point for connectivity product performance
- Warranty umbrella covering data and beyond-the-link cabling from a global company

System Designer –

- Opens up a range of connectivity product selection options
- Levels of cable performance supporting more connectivity choices for the designer to offer the end user
- Increased ability to meet cost targets through specifying a competitive cable and connectivity solution

wireless & zone ENCLOSURES

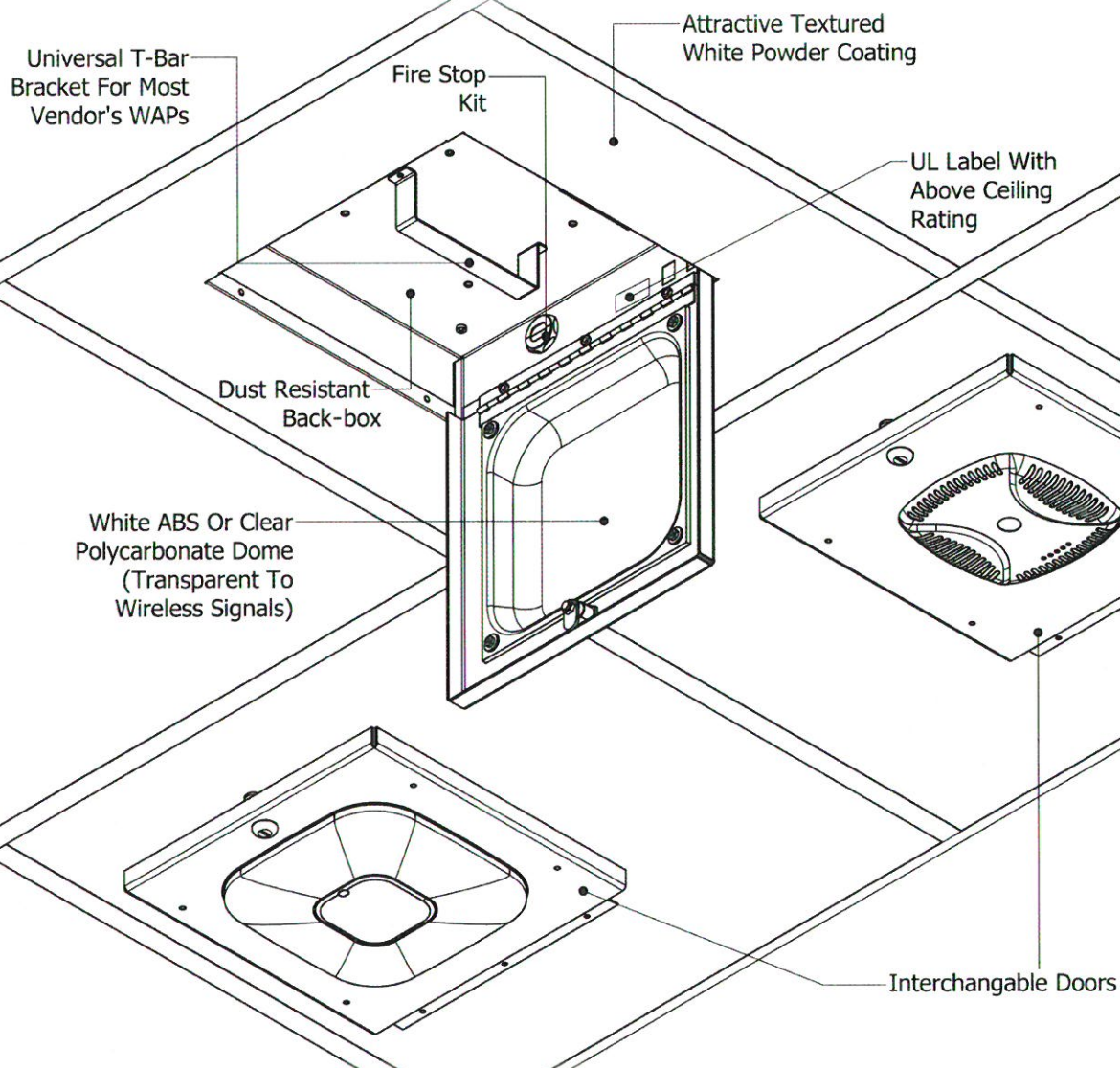
OBERON

A complete line of ceiling and wall mounted enclosures for securing wireless access points and other networking products where they are needed



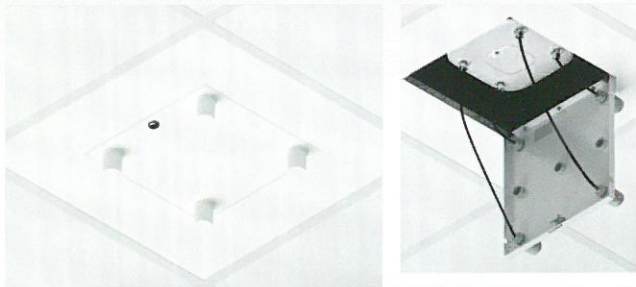
SECURE. AESTHETIC. CONVENIENT

Since 1999, Oberon, Inc. has been providing products and services to integrators and end users of wired and wireless LAN products. Our telecommunications enclosure and antenna products are used where the RF coverage, infrastructure security, environmental robustness, code compliance, and aesthetics are paramount in the network design and implementation.



WIRELESS ENCLOSURES

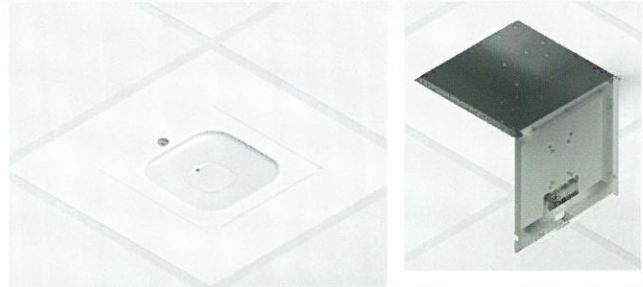
SUSPENDED CEILING TILE



MODEL 1052

Widely used in government and healthcare environments to secure wireless infrastructure and improve wireless coverage.

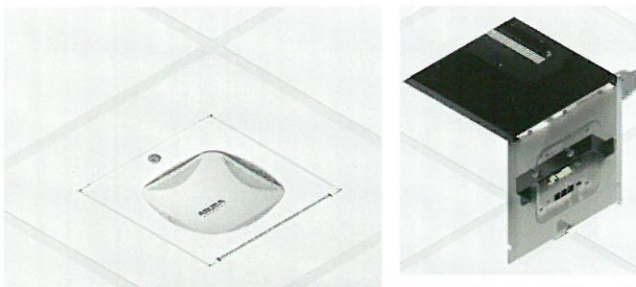
- 2' x 2' ceiling tile to secure most vendors' wireless access points with connectors and detachable antennas
- UL listed and designed to meet National Electric Code for use in the above-ceiling (plenum) space
- Up to seven antennas can be mounted on the door, providing superior coverage
- Hinged locking doors are interchangeable, simplifying future moves, adds, changes, and upgrades



MODEL 1052-CCOAP

Widely used in government, healthcare, and higher education environments to secure Cisco wireless infrastructure and improve wireless coverage.

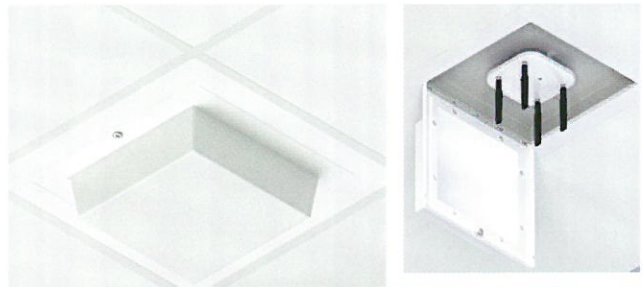
- 2' x 2' ceiling tile to secure Cisco access points with internal antennas
- UL listed and designed to meet National Electric Code for use in the above-ceiling (plenum) space
- Access point is fastened into the door of the enclosure, revealing only the antenna side
- Hinged locking doors are interchangeable, simplifying future moves, adds, changes, and upgrades



MODEL 1052-AP225

Superior wireless coverage, security, and appearance; ideal in classroom environments to secure Aruba Networks wireless infrastructure.

- 2' x 2' ceiling tile to secure Aruba Networks AP225 with internal antennas in the door of the enclosure
- UL listed and designed to meet National Electric Code for use in the above-ceiling (plenum) space
- Access point is fastened into the door of the enclosure, revealing only the antenna side
- Hinged locking doors are interchangeable, simplifying future moves, adds, changes, and upgrades



MODEL 1059-00

Attractive, non-metallic, plenum rated ABS dome creates maximum space for ceiling mounted wireless equipment.

- 2' x 2' ceiling tile to secure most vendors' wireless access points with detachable, non-detachable or internal antennas
- UL listed and designed to meet National Electric Code for use in the above-ceiling (plenum) space
- Plenum rated, durable, ABS non-metallic dome is virtually transparent to wireless signals.
- Back-box provides effective dust barrier in hospital environments

WIRELESS ENCLOSURES

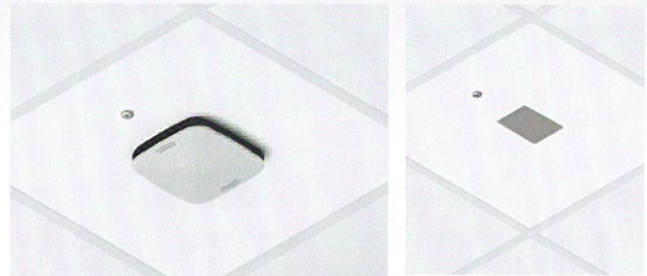
SUSPENDED CEILING TILE // SHALLOW BACK-BOX



MODEL 1064-T

Ultra low profile, attractive ceiling mounting solution for Cisco access points. Popular in hospitals for simplifying ICRA compliance. Shown with tegular flange for recessed grid ceilings.

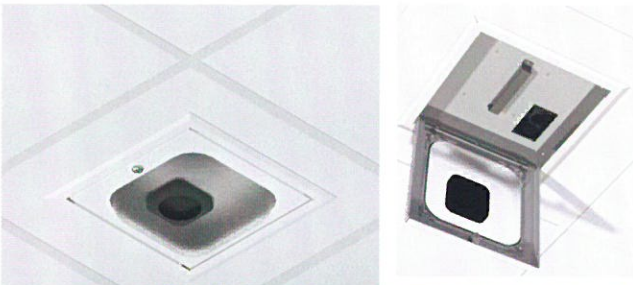
- 2' x 2' ceiling tile mounting solution to secure Cisco access points with internal antennas
- UL listed and designed to meet National Electric Code for use in the above-ceiling (plenum) space
- Access point locks into mount with patented mechanism
- Shown with tegular flange, which matches recessed grid style ceilings. Available on most models



MODEL 1068-00

Secure wireless access points from most vendors. Used in environments where access points from multiple vendors need to be secured by a common mechanism.

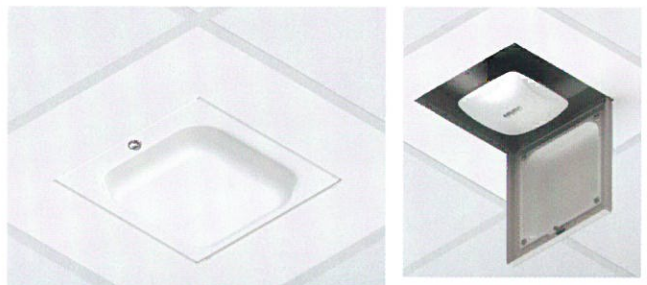
- 2' x 2' ceiling tile mounting solution to secure leading vendor's access points
- UL listed and designed to meet National Electric Code for use in the above-ceiling (plenum) space
- Access point locks into mount with patented mechanism
- Textured, white powder-coated steel and aluminum construction



MODEL 1075-CP

Economical suspended ceiling enclosure for wireless access points and multimedia gateways including Apple TV®. Ideal for multi-media classrooms.

- Aesthetic, ceiling tile insert enclosure to secure most vendors' access points with internal antennas and multimedia gateways, such as Apple TV®
- UL listed and designed to meet National Electric Code for use in the above-ceiling (plenum) space
- Impact-resistant, white ABS or clear polycarbonate domes are virtually transparent to wireless signals
- Hinged locking doors are interchangeable, simplifying future moves, adds, changes, and upgrades



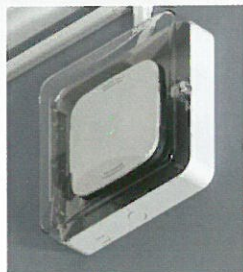
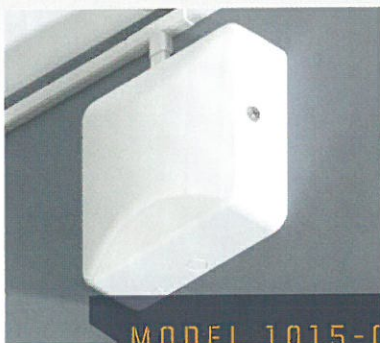
MODEL 1077-WA

Attractive suspended ceiling enclosure for wireless access points and multimedia gateways including Apple TV®. Ideal for multi-media classrooms and conference rooms.

- 2' x 2' ceiling tile to secure most vendors' wireless access points with detachable, non-detachable or internal antennas
- UL listed and designed to meet National Electric Code for use in the above-ceiling (plenum) space
- Plenum rated, durable, ABS non-metallic dome is virtually transparent to wireless signals.
- Back-box provides effective dust barrier in hospital environments

WIRELESS ENCLOSURES

RECESSED AND SURFACE MOUNT FOR HARD CEILING AND WALL



MODEL 1015-C

Protect wireless access points in this attractive, surface mount lock box. Ideal for hotels, retail environments, and residence halls.

- 11" x 11" surface mount lock box for most vendor's wireless access points
- Durable ABS non-metallic construction is virtually transparent to wireless signals
- Fully hinged *Skybar™* shaped locking door
- Twist-outs for surface raceway entry, and openings in back box for telecommunications outlet



MODEL 1011-00

Achieve optimum wireless coverage by mounting wireless access point in the preferred horizontal orientation. Suited for hallways, auditoriums and other open areas.

- Right angle surface mounting wall bracket for most vendors wireless access points
- Knockouts for surface raceway entry, and opening to mount directly over telecommunications outlet
- Attractive powder coated steel construction
- Available in locking version



MODEL 1076-WA

Attractive in-wall or in-ceiling mounts for Wi-Fi, DAS, and multi-media equipment; ideal where appearance is paramount. With 15" bezel.

- Aesthetic, locking 14" x 14" wall or hard-lid ceiling recessed enclosure for most vendors' access points with internal antennas and multimedia gateways such as Apple TV®
- UL listed and designed to meet National Electric Code for use in the above-ceiling (plenum) space
- Impact-resistant, white ABS or clear polycarbonate dome is virtually transparent to wireless signals
- Hinged locking doors are interchangeable, simplifying future moves, adds, changes, and upgrades



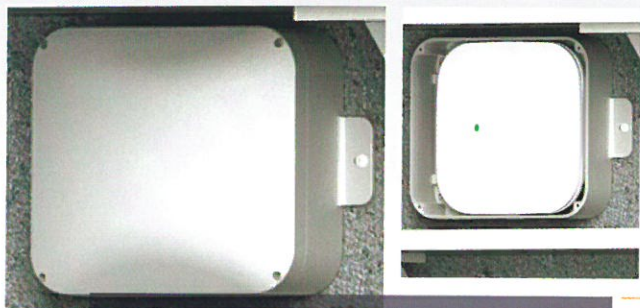
MODEL 1078-CCOAP

Attractive in-wall or in-ceiling mounts for Wi-Fi, DAS, and multi-media equipment; ideal where appearance is paramount. Mud ring allows the enclosure to be nicely finished into the wall.

- Aesthetic, locking 14" x 14" wall or hard-lid ceiling recessed enclosure for most vendors' access points with internal antennas and multimedia gateways such as Apple TV®
- UL listed and designed to meet National Electric Code for use in the above-ceiling (plenum) space
- Impact-resistant, white ABS or clear polycarbonate dome is virtually transparent to wireless signals
- Hinged, locking doors are interchangeable, simplifying future moves, adds, changes, and upgrades

WIRELESS ENCLOSURES

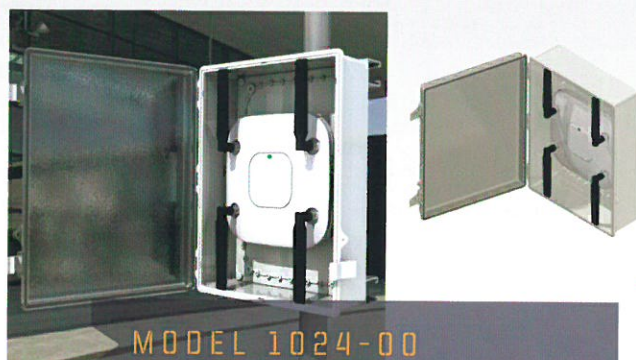
INDOOR / OUTDOOR / WASHDOWN / NEMA 4 ENCLOSURES



MODEL 1020-00

Protect wireless access points from the elements with this compact, attractive NEMA 4 enclosure. Ideal for under-seating installations in auditoriums, concert halls, and stadiums and other high density applications.

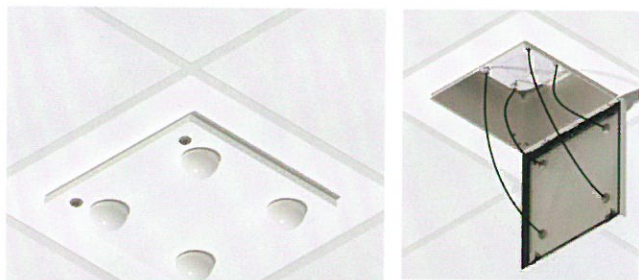
- 9" x 11" x 4" NEMA 4 enclosure for most vendor's wireless access points
- Paintable, durable, UV resistant ABS construction is virtually transparent to wireless signals
- Screw on Skybar™ shaped cover
- Molded-in mounting brackets



MODEL 1024-00

Protect wireless access points and antennas from the elements with this compact NEMA 4 enclosure designed specifically for outdoor Wi-Fi, DAS, Small Cell, and Het-Net deployments.

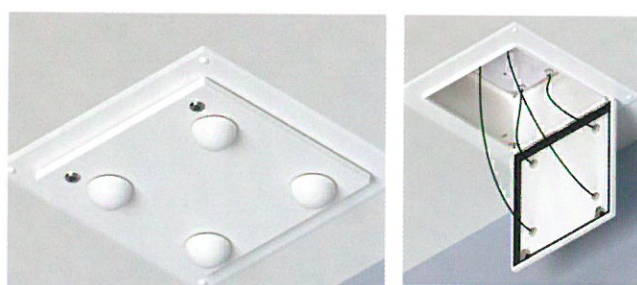
- 11" x 15" x 5" NEMA 4 enclosure for most vendor's wireless access points, antennas, and other wireless equipment
- Paintable, durable, UV resistant Polycarbonate construction is virtually transparent to wireless signals
- Available with clear or opaque door
- Hinged lockable door



MODEL 1028-08-ANT-F

Protect critical wireless equipment in the ceiling with this plenum rated NEMA 4 enclosure. Ideal for public safety equipment in hospitals and public buildings.

- 2' x 2' ceiling tile enclosure to protect most vendors' wireless access points with connectors and detachable antennas. Enclosure is 15" x 15" x 8"
- Designed to NEMA4 standard for water resistance. UL listed and designed to meet National Electric Code paragraph 300-22(C) and 300-23 for use in the above-ceiling (plenum) space. OSHPD approved
- Up to seven antennas can be mounted on the door, providing superior coverage
- Hinged gasketed doors are interchangeable, simplifying future moves, adds, changes, and upgrades

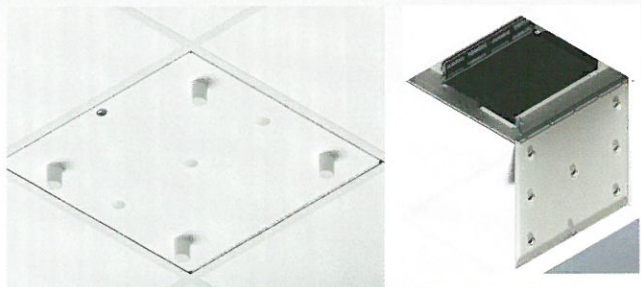


MODEL 1028-08-ANT-B

Protect critical wireless equipment recessed in a hard lid ceiling or wall with this plenum rated, NEMA 4 enclosure. Ideal for public safety equipment in hospitals and public buildings.

- Recess wall enclosure to protect most vendors' wireless access points with connectors and detachable antennas. Enclosure is 15" x 15" x 8" deep.
- Designed to NEMA4 standard for water resistance. UL listed and designed to meet National Electric Code paragraph 300-22(C) and 300-23 for use in the above-ceiling (plenum) space. OSHPD approved.
- Up to seven antennas can be mounted on the door, providing superior coverage
- Hinged gasketed doors are interchangeable, simplifying future moves, adds, changes, and upgrades

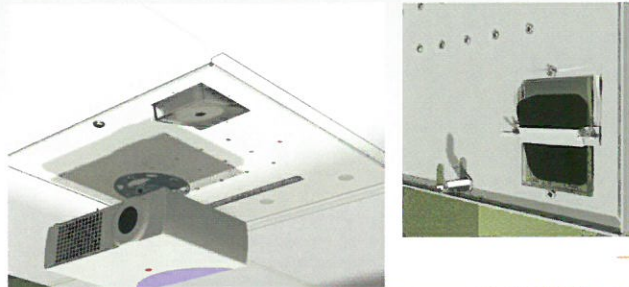
ZONE, PON, & WIRELESS ENCLOSURES SUSPENDED CEILING



MODEL 1074-04-ANT7

Create a consolidation point with this zone enclosure for mounting passive or low voltage equipment in the workspace. Fire-stopped openings in sidewalls are large enough "plug and Play" pre-terminated cabling and fiber assemblies.

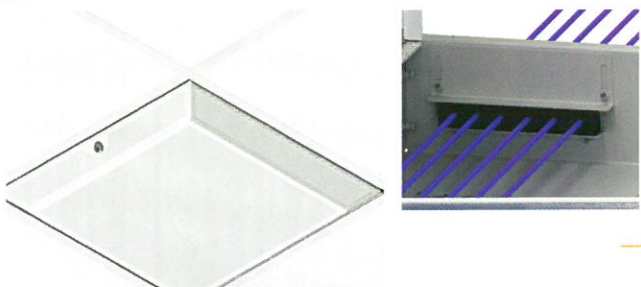
- 2' x 2' ceiling tile zone enclosure to secure rack mountable interconnect, and low voltage wireless equipment from most vendors. Multiple mounting positions on the door for antennas
- UL listed and designed to meet National Electric Code paragraph 300-22(C) and 300-23 for use in the above-ceiling (plenum) space
- Includes mounting brackets for 19" rack mountable equipment, and fire-stopped openings large enough for "plug and play" pre-terminated cable and fiber assemblies
- Available in 2U and 3U depths



MODEL 1074-04-PROJ

Secure multimedia and A/V equipment in this ceiling mounted zone enclosure. The door has mounting features for universal projector mounts, making it ideal for multimedia classrooms.

- 2' x 2' ceiling tile zone enclosure to secure rack mountable networking and A/V equipment from most vendors
- UL listed and designed to meet National Electric Code paragraph 300-22(C) and 300-23 for use in the above-ceiling (plenum) space
- Includes power receptacles, mounting brackets for 19" rack mountable equipment, and fire-stopped openings large enough for "plug and play" pre-terminated cable and fiber assemblies
- Available in 2U and 3U depths



MODEL 1074-04-VENT

Create a remote telecommunications room with this zone enclosure for mounting active equipment in the workspace. Highly ventilated doors permits installation of rack mountable switches, PON ONTS, PoE injectors and other active components

- 2' x 2' ceiling tile zone enclosure to secure rack mountable networking equipment from most vendors
- UL listed and designed to meet National Electric Code paragraph 300-22(C) and 300-23 for use in the above-ceiling (plenum) space
- Includes power receptacles, mounting brackets for 19" rack mountable equipment, and fire-stopped openings large enough for "plug and play" pre-terminated cable and fiber assemblies
- Available in 3U and 4U depths

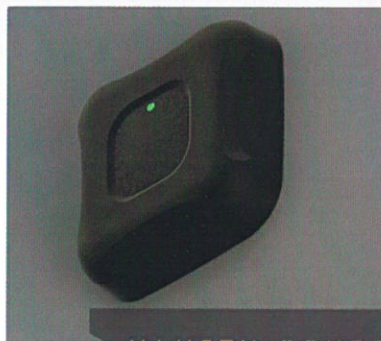


ANTENNAS & CABLES

Oberon offers a line of Wi-Fi and cellular band antennas to mount on Oberon enclosures, ideal where aesthetics and wireless coverage is paramount

- Dual band Wi-Fi antennas
- Multi-band cellular antennas
- Color matched to enclosure
- Excellent performance from ceiling mounted location

WIRELESS & WI-FI ACCESSORIES



VANITY COVERS FOR ACCESS POINT

Paintable, wireless-transparent, easy-to-attach
vanity skins for leading vendor's access points.



RETROFIT DOORS

Future-proof the wireless installation with
enclosure retrofit doors from Oberon. Retrofit
doors are available for leading vendor's
access points.

Leading institutions use Oberon's solutions to protect their wireless infrastructure.

Hospitals and Healthcare: Mitigate access to the plenum space to reduce the spread of airborne infectious disease, simplify ICRA procedure compliance, and secure endpoints for HIPAA compliance.

Education: Protect campus wide wireless networks in auditoriums, classrooms, residence halls, historical buildings, and stadiums.

Government and Public spaces: Protect critical wireless endpoints for secure and reliable wireless networking and policy compliance.

Commercial and Retail spaces: Simplify National Electric Code compliance, and compliance with PCI security standards for wireless endpoints.



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f. 814-867-2314

oberonwireless.com