

Corning ONE™ Wireless Platform

For Enterprise Networks



illuminating wireless

Welcome to a bolder, brighter broadband future. Corning introduces the Optical Network Evolution (ONE™) Wireless Platform, the first all-optical converged cellular and Wi-Fi solution.

The Corning ONE™ Wireless Platform is a complete future-ready converged solution ideal for both enterprises and wireless operators. Built on an all-optical backbone with modular service support from the headend to the antenna, the Corning ONE Wireless Platform supports cellular service enhancements and other building applications, including Wi-Fi, video surveillance, building automation, and more, for the enterprise environment.

Features and Benefits:

- All-optical infrastructure provides unlimited bandwidth and extended reach to support multiple in-building applications including DAS, Wi-Fi, and other IP services
- Range of ready-made fiber and composite cables combine fiber and power to simplify installation in both riser and horizontal
- Integrated or stand-alone Gigabit Ethernet and POE+ module delivers both fiber and connectivity for wireless access points, cameras, switches and other network appliances
- 1:1 optical connectivity enables unmatched determination accuracy for locating assets or delivering individualized services
- Modular design and source-agnostic architecture optimizes cellular service enhancement and simplifies upgrades

Simplified Connectivity

The Corning ONE platform's optical fiber infrastructure is easy to deploy via a wide range of cabling options, including preterminated composite cables. Easy to design and install, these preterminated solutions significantly reduce installation costs and deployment time.

The Corning ONE solution is an ideal fit for enterprise deployments in the high-rise, health care, hospitality and higher education markets. It enables significant CAPEX and OPEX savings by reducing the need for parallel network infrastructure, utilizing new cost-effective small-cell technology, and eliminating costly rip and replace infrastructure upgrades.



flexible architecture

Active Electronics

Corning ONE™ Wireless Platform provides a flexible in-building cellular coverage and capacity delivery solution based on a fiber optic transport backbone.

A True Platform to Address Future Enterprise Networks



Headend Unit (HEU)

- Optimizes the RF signals
- Up to 12 remote interface modules (RIMs) per unit
- Fully modular/field upgradable
- All connectors in the front



Optical Interface Unit (OIU)

- Converts RF signal to optical signal
- Up to 12 optical interface modules (OIMs) per unit
- ONE OIM supports three remotes
- Up to 36 RAUs per OIU chassis
- 1:1 connectivity from headend to remote



Interconnect Unit (ICU)

- 1U footprint significantly reduces IDF space
- Power to the RAU via composite cable
- Supports up to eight RAUs



Remote Access Unit (RAU)

- Out-of-box multi-carrier support
- Fully upgradable up to six bands
- Built in GigE + PoE+ (optional)



Central Ethernet Unit (CEU) - Optional

- Provides centralized media conversion/ Ethernet over fiber
- Hosts three media converter modules (CEMs)

Cables



Vertical

- Plug & Play™ Plenum Optical Cables
- MTP® Fiber Connectors
- 12 - 144 fibers
- 2-sided or 1-sided
- Armored, non-armored

Horizontal

- Composite plenum tether assemblies
- Fiber: LC/APC, 2 - 24 fibers
- Cu: 16 AWG, 14 AWG, 12 AWG; 2 - 12 conductors

Fiber Housing



1U

FMU

- Armored, non-armored
- 1U: 144 fibers
- 2U: 288 fibers
- 4U: 576 fibers
- Plug & Play Modules or Splice Cassettes



2U



4U

power to the edge

The Remote Access Unit (RAU) delivers capacity closer to the user, while providing power output at the antenna to simplify RF design.

Dedicated fiber links from headend to remote provide unmatched bandwidth, location accuracy for application support, and end-to-end monitoring.



Cellular + Wi-Fi + Ethernet

Selectable Cell/PCS/AWS/700 service support. Optional GigE and PoE+

Expandable

Out-of-box support for today's cellular network. The remote extender unit (RxU) allows for two additional bands.

Compact Design

Above, below or mid-ceiling mount options

Extended Reach

Support for external antennas

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