



CORNING

Extend your reach. Simplify your network.

Touchless Networking: A self-provisioning, simple way to network

Corning Touchless Networking is a self-provisioning network that leverages the benefits of a fiber- and power-deep architecture to enable applications like security cameras and simple access controls in hard-to-reach places.

Set it, and forget it. Or, upgrade it.

This simplified solution consists of a software-defined data plane (SDDP), Corning® ActiFi® composite cable, software-defined access nodes (SDAN), Corning Intelligent Power Units (CIP), and a one-time software license fee.

As networks grow to add more devices and more users, this solution is easily upgradeable to a fully-featured software-defined LAN (SD-LAN) solution without ripping-and-replacing equipment or cables. A full SD-LAN solution is able to adapt to more complex networks like WLAN (multiple SSIDs) or audio/visual applications.

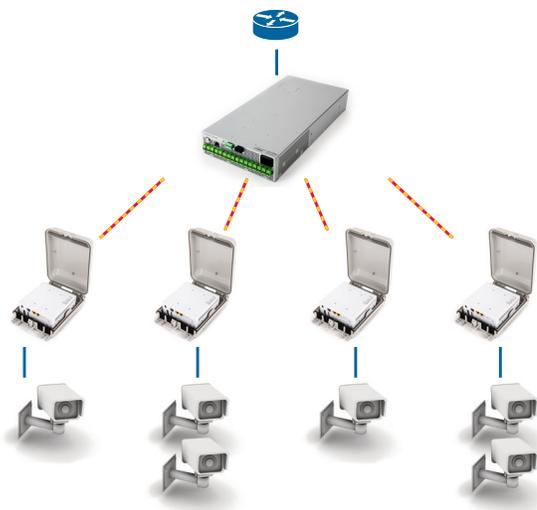
With minimal training, all members of Corning's Network of Preferred Installers (NPI) Program are qualified to install the Touchless Solution.

Go the distance with Corning remote power solutions.

Leverage our remote power solutions to make distance and simplicity a reality. Our remote power solutions include:

- Corning Intelligent Power Units (CIP), which offer up to 32 ports and requires only one rack unit per chassis
- Class 3 rated copper/fiber ActiFi composite cabling that supports low voltage (Class 2, 57 VDC/100 V), as well as bulk power solutions.

Corning ActiFi cable is available in a variety of jacket types, fiber counts, copper conductor counts, and gauges to address different applications and infrastructure needs. Reel in a Box offering is available in lengths of 500 feet and 1,000 feet for certain configurations of indoor, tight-buffered composite cables.



Self-Provisioning Solution Enables Simple Networks Like Cameras



Enable IP applications at a distance.

Security cameras and access controls can be found almost everywhere these days, including parking garages, K-12 schools, retail facilities, and higher-education campuses. How to deliver those services can be a challenge.

Corning Touchless Networking can take power and data from the central telecommunications closet and power cameras via Class 2 low-power distribution along with PoE/PoE+ to help monitor the premises. It can also provide the data and power required for these simple networks over 1,800 feet from the equipment room without the need for installing a new electrical cable and outlet or mid-span equipment.

Corning® ActiFi® Cable Distance Lengths			
	30 W	60 W	75 W
20 AWG	590 ft	295 ft	235 ft
16 AWG	1,500 ft	750 ft	600 ft
14 AWG	> 2,000 ft	1,190 ft	950 ft
12 AWG	> 2,000 ft	1,895 ft	1,500 ft

Notes: Consult Corning Solutions Architecture Team for Distances over 2,000 ft.

Calculations in table based on following assumptions:

1. Temperature: +45°C
2. Wire type: Stranded copper
3. Power supply: CIP-1U with PSM-I power supply modules
 - a: 57 V maximum voltage output
 - b: 100 W maximum power output
4. Minimum ONT input voltage: 48 V
5. These distances are estimated

Provide power and connectivity to over 350 devices.

Touchless networking is compatible with Corning software-defined access nodes (SDAN) which are available in a variety of port counts and PoE capabilities. Leverage the 8-port SDAN at the edge to enable over 350 end devices from each touchless switch or software-defined data plane (SDDP). Various enclosures and edge hardware options are available for different environments.

Ordering information

Each 8293 SDAN kit can support either two PoE cameras or one PoE+ camera. Each Touchless Switch can support up to 44 SDAN kits. Please consult your local Corning Sales Engineer or local distributor for kitted options.

Edge Kit	
1LAN-SDAN-8293	SDAN, 1P+3GE PoE, 30 W composite PoE, -40°C to +60°C/5% to 90% humidity
1LAN-OA-UPC	UPC Optical Attenuator
1LAN-SFP-4305BC	BiDi SFP, 1,490 Tx/1,310 Rx (SFP installed in SDDP for each SDAN kit)
1LAN-SDAN-SMCRD	8293 Surface Mount Cradle – Surface mount with slack tray for indoor installation
NID-FO-1724-AT	Outdoor Enclosure (Rated IP43) – Fiber network integrated device with one fiber splice tray and one SC APC adapter

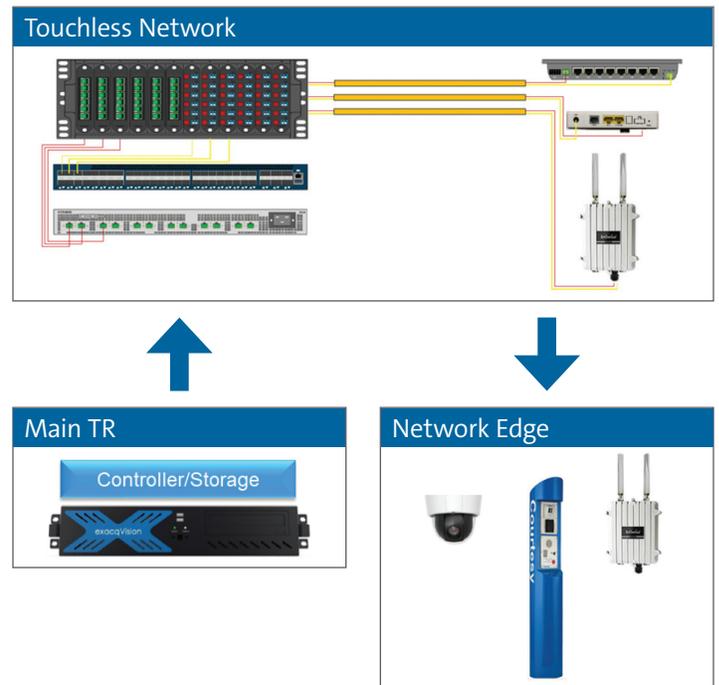
Headend Kit	
1LAN-SDDP-48P	Touchless Switch – SDDP, 48-port (supports up to 44 SDAN kits)
1LAN-SDDP-SA54	Touchless License
1LAN-SFPP-10GB-LR	10 Gb/s SFP+ Transceiver Module, SMF, 1310 nm, 10 km
CIP-16-56V	16-Port Corning Intelligent Power Units (CIP), 56 V
CIP-32-56V	32-Port Corning Intelligent Power Units (CIP), 56 V
CIP-16-24V	16-Port Corning Intelligent Power Units (CIP), 24 V
CIP-32-24V	32-Port Corning Intelligent Power Units (CIP), 24 V



Touchless Networking

Locations need bandwidth and power to enable networks like security cameras and simple access controls. Often, these devices are in remote locations with limited local power options and farther away from telecommunication rooms.

Corning Touchless Networking with remote power is the solution for quick deployments at far distances.





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