Corning touchless small cell is a simplified approach to deliver carrier in-building coverage as well as Citizens Broadband Radio Service (CBRS), also known as OnGo Wireless Coverage. The self-provisioning network leverages the benefits of fiber- and power-deep networking to enable small cell radio nodes at the edge.

**Start with cellular. Upgrade as needed.**

This simplified, cost-effective solution is a self-provisioning network that handles dual-carrier traffic. It consists of a small cell services nodes (SCSN), a software-defined data plane (SDDP), a software-defined access node (SDAN), and small cell radio nodes (SCRN) kits.

Each SDAN connects to two SCRNs – one for each carrier and/or CBRS. Each SCRN covers about 7,500 square feet. Touchless networking will support up to 44 SDANs, providing coverage to facilities up to approximately 300,000 square feet.

As networks grow to add more applications and more users, this solution is easily upgradeable to a fully featured software-defined LAN (SD-LAN) solution without the need to rip and replace equipment or cables. With a fiber-deep and power-deep architecture in place, upgrades become easier and more cost-effective. Touchless small cell lowers operations expenses while enabling a 5G-ready network.
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:

- Power supply unit (PSU6), which offers up to 12 ports and requires only one rack unit per chassis
- Modular, 57 voltage direct current (VDC) power supply module (PSM-I)
- Class 3 rated copper/fiber ActiFi composite cabling that supports low voltage (Class 2, 57 VDC/100 W), as well as bulk power solutions.

Corning’s ActiFi cable is available in a variety of jacket types, fiber counts, copper conductor counts, and gauges to address different infrastructure needs. The reel-in-a-box option is available for certain configurations. It can provide power to small cell radio nodes via Class 2 low-power distribution along with PoE/PoE+ at distances of almost 2,000 feet, without the need for installing a new electrical cable and outlet or mid-span equipment.

<table>
<thead>
<tr>
<th>Corning® ActiFi® Cable Distance Lengths</th>
<th>30 W</th>
<th>60 W</th>
<th>75 W</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 AWG</td>
<td>590 ft</td>
<td>295 ft</td>
<td>235 ft</td>
</tr>
<tr>
<td>18 AWG</td>
<td>940 ft</td>
<td>470 ft</td>
<td>375 ft</td>
</tr>
<tr>
<td>16 AWG</td>
<td>1,500 ft</td>
<td>750 ft</td>
<td>600 ft</td>
</tr>
<tr>
<td>14 AWG</td>
<td>&gt; 2,000 ft</td>
<td>1,190 ft</td>
<td>950 ft</td>
</tr>
<tr>
<td>12 AWG</td>
<td>&gt; 2,000 ft</td>
<td>1,895 ft</td>
<td>1,500 ft</td>
</tr>
</tbody>
</table>

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: PSU6-1U 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

Ordering information

Our certified integrator community can install touchless small cell. To find a certified integrator in your region, contact your local Corning Sales Engineer. Each edge kit can support two small cell radio nodes. Each main distribution frame (MDF) kit can support up to 44 edge kits. An alternative kit to support CBRS is also available. Please consult your local Corning Sales Engineer or local distributor for kitted options.
Touchless Small Cell

Having reliable in-building cellular coverage is critical for many businesses. Touchless small cell delivers a cost-effective, simple approach to enable the network as well as dual-carrier cellular coverage and/or CBRS inside of a building.

### Touchless Small Cell Kit for Two Carriers

**Edge Kit (SCRN-SDAN-KIT) includes:**

1. SCRN-220-020412 Small cell radio node (AT&T or Sprint)
2. SCRN-220-020413 Small cell radio node (Verizon or Sprint)
3. 1LAN-SDAN-7290 4 port, 60W SDAN
4. 1LAN-SDAN-FST0004 Fiber splice tray
5. 1LAN-SFP-4305BC Bi-Di SFP
6. 1LAN-OA-UPC 10 dB optical attenuator

**MDF Kit (SCSN-SDAN-KIT) includes:**

1. 1LAN-SDDP-48P 48-port SDDP
2. 1LAN-SDDP-5A54 Data plane software
3. SCSN-9000-1 Small cell services node, supports 50 SCRN
4. 2 1LAN-SFP-1GCU Copper SFP

### Touchless Small Cell Kit for CBRS

**Edge Kit (SCRN-SDAN-KIT) includes:**

1. SCRN-330 Small cell radio node supporting band 48 or band 41
2. 1LAN-SDAN-7290 4 port, 60W SDAN
3. 1LAN-SDAN-FST0004 Fiber splice tray
4. 1LAN-SFP-4305BC Bi-Di SFP
5. 1LAN-OA-UPC 10 dB optical attenuator

**MDF Kit (SCSN-SDAN-CBRS-KIT) includes:**

1. 1LAN-SDDP-48P 48-port SDDP
2. 1LAN-SDDP-5A54 Data plane software
3. SCSN-9000-1 Small cell services node, supports 50 SCRN
4. 2 1LAN-SFP-1GCU Copper SFP