

1LAN-SDAN-8293 Software Defined Access Node Quick Installation Guide



SD-LAN-000-8293




General Information |

- The 8293 Access Node consists of the ONT, including the DC connector and mounting screws.
- This document describes how to install the ONT, mount the ONT, DC wiring connection, and fiber connection.

Items Required For 8293 Installation |

The following included items are required for installing the 8293. If any of the listed items are missing, contact our Corning representative.

Table 1 Required items for 8293 Installation

8293 Access Node	Quantity	Item
1LAN-SDAN-8293	1	
Mounting Screws 4	4	
DC Terminal Block; two pole with screw for wire (PN: 255760003)	1	

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1 Connections and Ports |

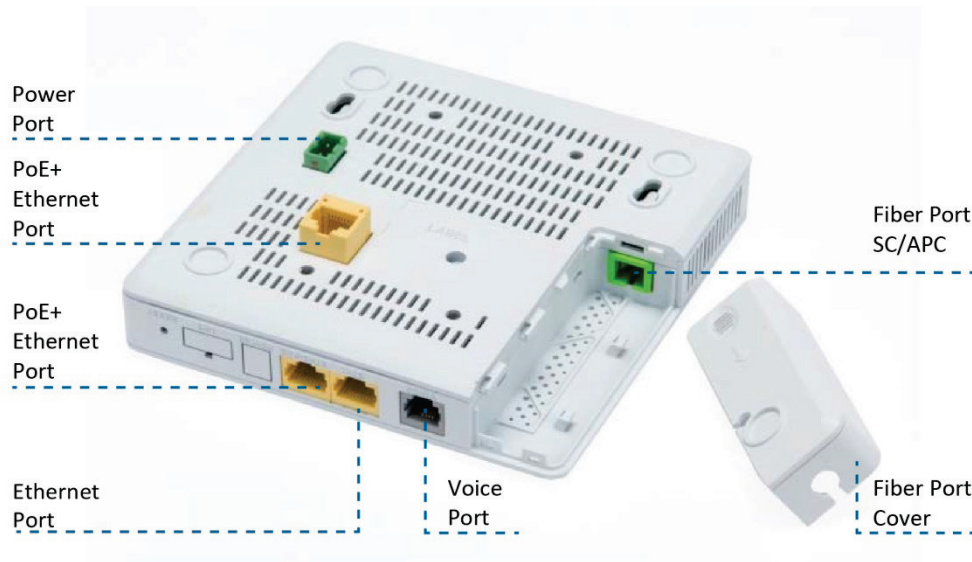


Figure 1 8293 Access Node Ports and Connections

PORTS

- PoE+ Ethernet ports – 2 (RJ-45)
 - 30 W PoE+ total between both ports
- Ethernet Port – 1 (RJ-45)
- Voice Port – 1 (RJ-11)
- Fiber input port – 1 (SC/APC)
- Power Port – 1

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2 USING SURFACE MOUNT CRADLE (1LAN-SDAN-SMCRD) |

- Step 1** Using 2 screws provided, attach cradle to mounting surface using two screw holes in back of cradle.

- Step 2** If entering the cradle from side, remove appropriate round knockout plate and attach entry grommet.

- Step 3** If entering cradle from the back, route cable into cradle securely from back entrance opening.

- Step 4** Route cable inside cradle in a manner that maintains bend radius and prevents cable from being pinched or damaged using routing guides.

- Step 5** Terminate fiber and copper using selected method (See Sections 3 and 4).

- Step 6** Secure fiber into routing guide and connect to fiber input port.

- Step 7** Connect power connection to power Port.

- Step 8** Place ONT over cradle aligning screw holes and making sure cables are routed securely and are not pinched or damaged.

- Step 9** Using ONT mounting screws attach ONT to mounting cradle and secure with screws.

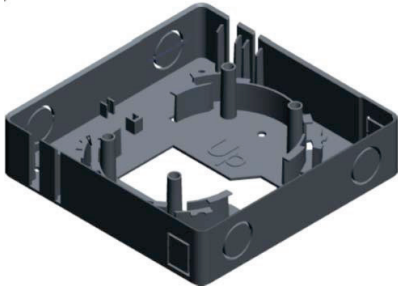


Figure 2 ONT Surface Mount Cradle



Figure 3 Fiber routing guide

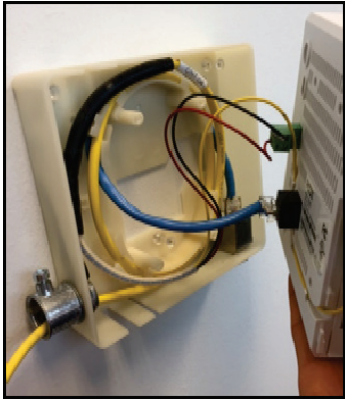


Figure 4 ONT Surface Mount Cradle

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3 USING SURFACE MOUNT CRADLE (1LAN-SDAN-SMCRD) |

- | | |
|---------------|--|
| Step 1 | Mount Dual gang box securely in wall. |
| Step 2 | Route cable inside box in a manner that maintains bend radius and prevents cable from being pinched or damaged. |
| Step 3 | Terminate fiber and copper using selected method (See Sections 3 and 4). |
| Step 4 | Secure fiber into routing guide and connect to fiber input port. |
| Step 5 | Connect power connection to power port. |
| Step 6 | Place ONT over box aligning screw holes and making sure cables are routed securely and are not pinched or damaged. |
| Step 7 | Using ONT mounting screws attach ONT to box and secure with screws. |

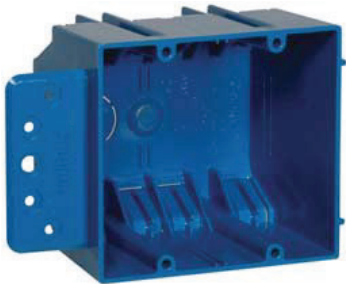


Figure 5 Dual Gang Box Mounting



Figure 6 Fiber routing guide



Figure 7 Dual Gang Box Mounting

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4 USING SURFACE MOUNT CRADLE (1LAN-SDAN-SMCRD) |

Notes: Fiber can be terminated using:

- A. Unicam® Connectors
- B. Fuselite® Connectors
- C. Fusion Spliced Pigtail

METHOD A. Unicam® SC/APC Connector |

Step 1 Terminate fiber using Corning Unicam® standard recommended procedure
(<https://www.corning.com/catalog/coc/documents/standard-recommended-procedures/006-369.pdf>).

Step 2 Remove port cover.

Step 3 Plug SC/APC connector into fiber port on ONT (Figure 8).

Step 4 Replace port cover making sure fiber is not pinched or damaged.

METHOD B. Fuselite® SC/APC Connector |

Step 1 Terminate fiber using Corning Fuselite® standard recommended procedure
(<https://www.corning.com/catalog/coc/documents/standard-recommended-procedures/LAN-1468-AEN.pdf>)

Step 2 Remove port cover.

Step 3 Plug SC/APC connector into fiber port on ONT Figure 8).

Step 4 Replace port cover making sure fiber is not pinched or damaged.



Figure 8 ONT Fiber Port

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METHOD C. Fusion Spliced Pigtail SC/APC Connector |

Step 1	Terminate fiber using SC/APC fusion splice pigtail.
Step 2	Route and secure pigtail fiber and incoming fiber in cradle or gang box to make sure it maintains accepted bend radius and fibers are not pinched or damaged.
Step 3	Secure splice heat shrink.
Step 4	Remove port cover.
Step 5	Plug SC/APC connector into fiber port on ONT (Figure 8).
Step 6	Replace port cover making sure fiber is not pinched or damaged.

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5 DC Wiring Connections |

NOTE: The 8293 Access Node can be remote powered with composite cable or local powered with power supply (1LAN-SDANPWRSUP2)

Step 1 Identify the positive and negative terminals on the DC connector. The wiring sequence is positive to positive and negative to negative as shown in Figure 9.

Step 2 Open the terminal block screw above the negative feed position and then insert the exposed black wire (negative feed) into the terminal block.

Step 3 Torque the terminal block captive screw (above the installed wire lead), securely.

Step 4 Repeat the same process as in Step 2 and Step 3 for remaining positive feed (exposed red wire).

Step 5 Plug the DC connector into the power port on the ONT.

Step 6 If using local power supply plug power supply into supplied 120V power outlet to power unit (1LAN-SDAN-PWRSUP2).

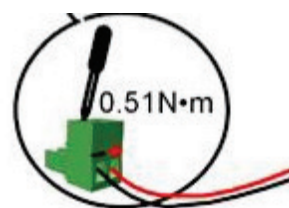


Figure 9 Terminating DC power connection



Figure 10 ONT Power Port

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6 Power and Operation |

Step 1 Connect the copper connections to PSU or use AC/DC Adapter to power (1LAN-SDANPWSUP2).

Step 2 Verify normal operation when unit is powered up and system is configured. Refer to Figure 11 and Table 2.



Figure 11 Power LEDs

Table 2 ONT LED Descriptions

LED	Description
POWER	Power LED
BATT	Battery LED Indicator
FAIL	Fail LED Indicator
MGMT	Management LED Indicator
VOICE	Voice LED Indicator
ETH1	Ethernet LED Indicator
ETH2	Ethernet LED Indicator
ETH3	Ethernet LED Indicator