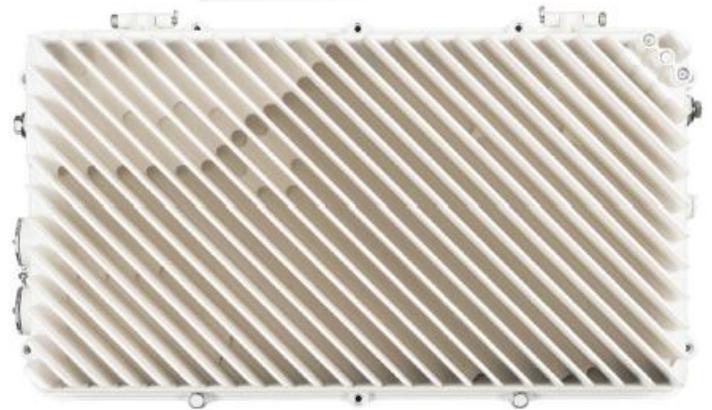


The Entra SF-4X Access Node is a sealed remote optical line terminal (R-OLT) with four 10 Gb/s Ethernet passive optical network (EPON) ports and up to four 10 Gb/s Ethernet uplinks. With support for DOCSIS® provisioning over EPON (DPoE™), the SF-4X Access Node is the ideal fiber to the home (FTTH) solution and is an essential component of the Entra unified cable access portfolio.



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## Highlights

- 4 ports of 10 Gb/s EPON.
- Up to 4 ports of 10 Gb/s Ethernet uplinks.
- Integrates into a unified cable access solution and virtualized Distributed Access Architecture deployments.
- Field-replaceable components, including optical modules, EPON line card and power supply modules.
- Hardened for an outside plant enclosure, and line-powered with strand, wall, and pedestal mount options.
- Easily managed by Entra® Access Controller.
- Support for DPoE enables easy integration with existing networks and systems.
- High downstream and upstream capacity enables delivery of up to 10 Gb/s of symmetrical services.
- Point-to-multipoint architecture reduces fiber costs.
- Outstanding suitability for residential greenfield, commercial services, multiple dwelling units, hybrid fiber-coaxial black spot infill, long lines, and network spurs.

## Specifications

| Physical                  |  |
|---------------------------|--|
| Height                    | 297 mm (11.7 in)   |
| Width                     | 527 mm (20.7 in)   |
| Depth                     | 238 mm (9.4 in)  |
| Weight                    | 18.22 kg (40.12 lbs.)  |
| Operating Environment     |  |
| Temperature               | -40 to 60 C (-40 to 140 F)   |
| Relative Humidity         | 5% to 95%, noncondensing   |
| Altitude                  | -60 m to 4000 m (-196.9 ft to 13,123.4 ft)   |
| Storage Environment       |  |
| Temperature               | -40 to 70 C (-40 to 158 F)   |
| Relative Humidity         | 5% to 95%, noncondensing   |
| Altitude                  | -60 m to 4000 m (-196.9 ft to 13,123.4 ft)   |
| Installation              |  |
| Mounting Options          | Horizontal strand or pedestal mounting<br>Wall or pole mounting with mounting bracket  |
| Power Requirements        |  |
| Input Voltage             | 44 V to 100 V AC, nominal 90/60 V AC quasi-square wave   |
| Power Consumption         | 75 W typical, 85 W maximum<br>Coax line-powered using left or right power port and a pin connector with 5/8-24 housing                                 |
| Interfaces                |  |
| Ports                     | 4 ports of 10 Gb/s EPON for subscriber access<br>4 ports of 10 Gb/s for uplinks  |
| Supported Optical Modules |  |
| XFP for PON               | 10G EPON Type 4, which supports 10/10, 10/1, 2 (Turbo)/1, or 1/1 EPON line rates   |
| SFP+ for Uplinks          | ER, LR, BX-U, BX-D, ZR<br>Coarse wavelength division multiplexing (CWDM): ZR<br>Dense wavelength division multiplexing (DWDM): ZR, optical Ethernet ZR |

| Reliability                      |   |
|----------------------------------|---|
| Mean Time Between Failure (MTBF) | 101,295 hr at 60 C (140 F) and 439,318 hr at 25 C (77 F) per Telcordia SR-332 Issue 3 methodology |
| Regulatory Standards Compliance  |   |
| EMC (Immunity/Emissions)         | EN 55024  |
|                                  | EN 55032  |
|                                  | EN 55035  |
|                                  | EN 61000-3-2  |
|                                  | EN 61000-3-3  |
| Safety                           | FCC PART 15 SUBPART B   |
|                                  | VCCI CISPR 32   |
|                                  | IEC/EN 60950-1  |
|                                  | ANSI/UL 60950-1   |
|                                  | CAN/CSA C22.2 No. 60950-1-07  |
| Outdoor Use                      | IEC/EN 62368-1  |
|                                  | ANSI/UL 62368-1   |
|                                  | CAN/CSA C22.2 No. 62368-1   |
|                                  | EN 60825-1 (ONLY for SFPs)  |
|                                  | EN 60825-2 (ONLY for SFPs)  |
| Corrosion Resistance             | IEC 60950-22  |
| IP Rating                        | GR-2873-CORE<br>ASTM B117   |
| Surge                            | IP67  |
| Environmental                    | ANSI/SCTE 81  |
|                                  | IEEE C61.42   |
|                                  | IEEE C62.41   |
| WEEE Directive                   | IEC/EN 63000  |
|                                  | Hazardous substances: RoHS Directive 2011/65/EC   |
| WEEE Directive                   | Waste Electrical and Electronic Equipment: WEEE Directive 2012/95/EC                              |