The Nokia 7705 Service Aggregation Router-Optical (SAR-O) is an ideal solution for network operators with access to fiber facilities and who want to increase the value and efficiency of their optical infrastructure by cost-effectively adding coarse wave division multiplexing (CWDM) capability.

The Nokia 7705 SAR-O is an environmentally hardened, fan-less optical add-drop multiplexer (OADM).

The ability to add and drop, and to multiplex and de-multiplex wavelengths, brings opportunities for capacity increase without adding undue complexity or cost.

The 7705 SAR-O can be used by: service providers in both mobile and fixed environments, utilities, public safety agencies, transportation operators and government organizations to efficiently increase owned or third-party leased fiber capacity.

Features and benefits

- Weather-proof enclosure and connectivity points provide high reliability operation for excellent network availability in outdoor environments.
- Simple installation and maintenance means faster deployment and lower total cost of ownership.
- No ongoing servicing is required (no air filters, fuses, etc.), reducing operating costs.
- Individual protective caps on connectors provide resilient sealing and allow future expansion when needed.
- No power connection is required, freeing the installation point from being close to energy sources.
- The 7705 SAR-O supports stringent latency requirements, e.g. meeting the needs of the Common Public Radio Interface (CPRI) protocol.
- Multiple CPRI links can be transported over a single fiber strand.
- The 7705 SAR-O supports single strand or multi-stranded fiber fronthaul.
Technical specifications

**Dimensions and weight**

- Height: 2.17 in. or 5.5 cm
- Width: 9.65 in. or 24.5 cm
- Depth: 10.24 in. or 26.0 cm
- Weight: 4.0 lbs or 1.8 kg

**Environmental specifications**

- GR-950 and IP65 compliant
- Operating temperature: -40°C to +65°C
  (-40°F to +149°F)

Table 1. 7705 SAR-O variants

<table>
<thead>
<tr>
<th>Part number</th>
<th>Part name</th>
<th>Description</th>
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<tbody>
<tr>
<td>3HE07939AA</td>
<td>7705 SAR-O 2-Fiber CWDM 4 color 1471-1531</td>
<td>7705 SAR-O outdoor system for passive optical CWDM OADM of 4 wavelengths (1471/1491/1511/1531 nm) with an expansion port (including 1310 nm passthrough) over a dual fiber cable</td>
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<tr>
<td>3HE07939BA</td>
<td>7705 SAR-O 2-Fiber CWDM 4 color 1551-1611</td>
<td>7705 SAR-O outdoor system for passive optical CWDM OADM of 4 wavelengths (1551/1571/1591/1611 nm) with an expansion port (including 1310 nm passthrough) over a dual fiber cable</td>
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<tr>
<td>3HE07939CA</td>
<td>7705 SAR-O 2-Fiber CWDM 4 color 1271-1331</td>
<td>7705 SAR-O outdoor system for passive optical CWDM OADM of 4 wavelengths (1271/1291/1311/1331 nm) with an expansion port (including 1550 nm passthrough) over a dual fiber cable</td>
</tr>
<tr>
<td>3HE07939DA</td>
<td>7705 SAR-O 2-Fiber CWDM 4 color 1351-1451</td>
<td>7705 SAR-O outdoor system for passive optical CWDM OADM of 4 wavelengths (1351/1371/1431/1451 nm) with an expansion port (including 1550 nm passthrough) over a dual fiber cable</td>
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