

# 7705 Service Aggregation Router

## Card and module support quick reference card

### Release 26.10

Platform notes

All 7705 SAR chassis run the same system software. The main difference between the products is their hardware platforms.

Table 1: Platform notes

|                                                                                                                                    |                                                                                                                                                                                |                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SAR-8 Shelf V2                                                                                                                                                                                                      | SAR-18                                                                                                                                                                                                                                                          | SAR-A                                                                                                                                                                                                                                  | SAR-Ax                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SAR-H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SAR-Hc                                                                                                                                                                                                                                                        |
| 60 Gb/s HD                                                                                                                                                                                                          | 140 Gb/s HD                                                                                                                                                                                                                                                     | 10 Gb/s HD                                                                                                                                                                                                                             | 10 Gb/s HD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8 Gb/s HD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5 Gb/s HD                                                                                                                                                                                                                                                     |
| Rack-mountable: 2 RU                                                                                                                                                                                                | Rack-mountable: 10 RU                                                                                                                                                                                                                                           | Rack-mountable: 1 RU                                                                                                                                                                                                                   | Rack-mountable: 1 RU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rack-mountable: 1.5 RU<br>Wall-mountable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DIN rail-mountable<br>Wall-mountable<br>Panel-mountable                                                                                                                                                                                                       |
| <div>The SAR-8 Shelf V2 is a fan-cooled, 8-slot chassis that supports:<ul style="list-style-type: none"><li>2 CSMv2 modules</li><li>1 Fan module (with alarm functionality)</li><li>6 adapter cards</li></ul></div> | <div>The SAR-18 is a fan-cooled, 18-slot chassis that supports:<ul style="list-style-type: none"><li>2 CSMs</li><li>1 Fan module</li><li>1 alarm module</li><li>16 adapter cards (up to 12 1-Gb/s and 2.5-Gb/s cards and up to 4 10-Gb/s cards)</li></ul></div> | <div>The SAR-A is a passively cooled, fixed chassis with two variants:<ul style="list-style-type: none"><li>chassis with 12 Ethernet ports and 8 T1/E1 ports</li><li>chassis with 12 Ethernet ports and no T1/E1 ports</li></ul></div> | <div>The SAR-Ax is a passively cooled, fixed chassis with 12 Ethernet ports:<ul style="list-style-type: none"><li>4 combination (XOR) ports that can be configured as either RJ-45 10/100/1000 Ethernet ports or 100/1000 SPF Ethernet ports</li><li>8 100/1000 Ethernet ports</li></ul>The SAR-Ax chassis also has a factory-installed GNSS receiver and a GNSS RF faceplate connector. The GNSS RF connector can be cabled to an external GNSS antenna. When locked to the active antenna, the GNSS receiver can integrate GPS and GLONASS signals in the chassis.</div> | <div>The SAR-H is a passively cooled, fixed chassis that has:<ul style="list-style-type: none"><li>2 SFP GigE ports</li><li>2 combination SFP/RJ-45 10/100/1000 Ethernet ports</li><li>4 PoE-capable RJ-45 10/100/1000 Ethernet ports</li><li>2 module slots</li></ul>Connecting a PoE Power Supply increases the number of Ethernet ports that can supply PoE to a connected device. There are two variants of the SAR-H chassis:<ul style="list-style-type: none"><li>high-voltage AC/DC for 100/240 VAC and 110-250 VDC installations (includes integrated AC input)</li><li>low-voltage DC for −48/−60 and +24 VDC installations</li></ul></div> | <div>The SAR-Hc is a passively cooled, fixed chassis that has:<ul style="list-style-type: none"><li>2 SFP GigE ports</li><li>2 RJ-45 10/100/1000 Ethernet ports</li><li>2 PoE-capable RJ-45 10/100/1000 Ethernet ports</li><li>2 RS-232 ports</li></ul></div> |

Table 1: Platform notes (Continued)

| <div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SAR-M                                                                                                                                                                                                                                                            | SAR-Wx                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SAR-X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 10 Gb/s HD                                                                                                                                                                                                                                                       | 10 Gb/s HD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 54 Gb/s HD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Rack-mountable: 1 RU                                                                                                                                                                                                                                             | Pole-mountable<br>Wall-mountable<br>Cable strand-mountable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Rack-mountable: 1 RU                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>The SAR-M is a fan-cooled, fixed chassis with two variants:</p> <ul style="list-style-type: none"><li>chassis with 7 GigE ports, 16 T1/E1 ports, and 1 module slot</li><li>chassis with 7 GigE ports, no T1/E1 ports, and 1 module slot</li></ul>             | <p>The SAR-Wx is a passively cooled, fixed, ruggedized, environmentally hardened chassis with four variants:</p> <ul style="list-style-type: none"><li>chassis with 3 SFP GigE ports, 2 RJ-45 GigE ports, and an RJ-45 alarm input connector</li><li>chassis with 3 SFP GigE ports, 2 RJ-45 GigE ports, an RJ-45 alarm input connector, and a GPS receiver</li><li>chassis with 3 SFP GigE ports, 1 RJ-45 GigE port, 1 PoE+ RJ-45 GigE port, and an RJ-45 alarm input connector</li><li>chassis with 3 SFP GigE ports, 1 RJ-45 GigE port, 1 PoE+ RJ-45 GigE port, an RJ-45 alarm input connector, and a GPS receiver</li></ul> | <p>The SAR-X is a fan-cooled, fixed chassis that has:</p> <ul style="list-style-type: none"><li>8 T1/E1 ports</li><li>4 combination (XOR) GigE ports (each can be configured either as RJ-45 or SFP)</li><li>8 SFP GigE ports</li><li>2 SFP+ 10-GigE ports</li></ul> <p>There are two variants of the SAR-X chassis:</p> <ul style="list-style-type: none"><li>AC variant can use a 100 to 240 VAC power source</li><li>DC variant can use a single or dual +24/48/60 VDC power source</li></ul> |

Adapter card support

Table 2 lists the adapter cards supported on the SAR-8 Shelf V2 and SAR-18. Adapter cards cannot be installed in the other chassis.

Table 2: Platform and adapter card support

| Adapter card                                           | SAR-8 Shelf V2 | SAR-18         |
|--------------------------------------------------------|----------------|----------------|
| 2-port 10GigE (Ethernet) card                          | Up to 4 cards  | Up to 6 cards  |
| 2-port OC3/STM1 Channelized card <sup>(1)</sup>        | Up to 6 cards  | Up to 12 cards |
| 4-port DS3/E3 card <sup>(1)</sup>                      | Up to 6 cards  | Up to 12 cards |
| 4-port OC3/STM1 Clear Channel card                     | Up to 6 cards  | Up to 12 cards |
| 4-port OC3/STM1 / 1-port OC12/STM4 card <sup>(1)</sup> | Up to 6 cards  | Up to 12 cards |
| 6-port E&M card                                        | Up to 6 cards  | Up to 12 cards |
| 6-port Ethernet 10Gbps card, v1                        | Up to 6 cards  | Up to 12 cards |
| 6-port Ethernet 10Gbps card, v2                        | Up to 6 cards  | Up to 12 cards |
| 6-port Ethernet 10Gbps card-E                          | Up to 6 cards  | Up to 12 cards |
| 6-port FXS card                                        | Up to 6 cards  | Up to 12 cards |
| 8-port C37.94 Teleprotection card                      | Up to 5 cards  | Up to 11 cards |
| 8-port FXO card                                        | Up to 6 cards  | Up to 12 cards |
| 8-port Gigabit Ethernet card                           | Up to 6 cards  | Up to 12 cards |
| 8-port Voice & Teleprotection card                     | Up to 6 cards  | Up to 12 cards |
| 10-port 1GigE/1-port 10GigE X-Adapter card             | —              | Up to 4 cards  |
| 12-port Serial Data Interface card                     | Up to 6 cards  | Up to 12 cards |
| 16-port T1/E1 ASAP card, v2                            | Up to 6 cards  | Up to 12 cards |
| 32-port T1/E1 ASAP card                                | Up to 6 cards  | Up to 12 cards |
| Auxiliary Alarm card                                   | Up to 6 cards  | Up to 12 cards |
| CWDM OADM card                                         | Up to 6 cards  | Up to 12 cards |
| GNSS Receiver card                                     | Up to 2 cards  | Up to 2 cards  |
| Integrated Services card                               | Up to 6 cards  | Up to 12 cards |
| Packet Microwave card                                  | Up to 6 cards  | Up to 12 cards |
| Power Injector card                                    | Up to 4 cards  | Up to 8 cards  |

Notes:

(1) The number of cards supported depends on channelization.

On a SAR-8 Shelf V2, a maximum of six 2-port OC3/STM1 Channelized Adapter cards or 4-port DS3/E3 Adapter cards can be installed in MDA slots 1 to 6 if DS3/E3 channelization is used (E3 channels are supported on the 4-port DS3/E3 Adapter card only). If DS1/E1 channelization is used, four 2-port OC3/STM1 Channelized Adapter cards, six 4-port OC3/STM1 / 1-port OC12/STM4 Adapter cards, or six 4-port DS3/E3 Adapter cards can be installed in MDA slots 1 to 6. If DS0 (64 kb/s) channelization is used, four 2-port OC3/STM1 Channelized Adapter cards or 4-port DS3/E3 Adapter cards can be installed in MDA slots 1 to 6.

On a SAR-18, a maximum of twelve 2-port OC3/STM1 Channelized Adapter cards or 4-port DS3/E3 Adapter cards can be installed in MDA slots 1 to 12 if DS3/E3 channelization is used (E3 channels are supported on the 4-port DS3/E3 Adapter card only). If DS1/E1 channelization is used, four 2-port OC3/STM1 Channelized Adapter cards, twelve 4-port OC3/STM1 / 1-port OC12/STM4 Adapter cards, or twelve 4-port DS3/E3 Adapter cards can be installed in MDA slots 1 to 12. If DS0 (64 kb/s) channelization is used, four 2-port OC3/STM1 Channelized Adapter cards or 4-port DS3/E3 Adapter cards can be installed in MDA slots 1 to 12.

The total number of channel groups that can be configured per card and per node is bound by release-specific system limits. For more information, please contact your Nokia technical support representative.

Module support

Table 3 lists the modules supported on the 7705 SAR platforms that support modules.

Table 3: Platform and module support

| Module                                      | SAR-8 Shelf V2  | SAR-18          | SAR-H           | SAR-M    |
|---------------------------------------------|-----------------|-----------------|-----------------|----------|
| 2-port 10GigE (Ethernet) module             | —               | —               | —               | 1 module |
| 4-port SAR-H Fast Ethernet module           | —               | —               | Up to 2 modules | —        |
| 4-port T1/E1 and RS-232 Combination module  | —               | —               | Up to 2 modules | —        |
| 6-port SAR-M Ethernet module <sup>(1)</sup> | —               | —               | —               | 1 module |
| Alarm module, v1 or v2                      | —               | 1 module        | —               | —        |
| CSM                                         | —               | Up to 2 modules | —               | —        |
| CSMv2                                       | Up to 2 modules | —               | —               | —        |
| CWDM OADM module                            | —               | —               | —               | 1 module |
| Fan module                                  | 1 module        | 1 module        | —               | —        |
| GPS Receiver module                         | —               | —               | 1 module        | —        |

Note:

(1) The 6-port SAR-M Ethernet module supports PoE/PoE+.

AC and High Voltage DC power supply support

Nokia offers the following AC/DC and HVDC power supplies that can be used with 7705 SAR platforms.

100W High Voltage Power Supply

A 100W High Voltage Power Supply with integrated AC input is available for 100/240 VAC installations. The input can be modified to function as a high-voltage DC power supply for rated 110-250 VDC installations. The 100W High Voltage Power Supply can be mounted on a DIN rail, wall, or panel.

The following 7705 SAR platforms support AC or DC source-to-router connections through the 100W High Voltage Power Supply:

- SAR-A
- SAR-Ax
- SAR-Hc
- SAR-M

250W AC Power Supply

An external 250W AC Power Supply with integrated AC input is available for 100/240 VAC installations.

The SAR-8 Shelf V2 (–48 VDC systems only) supports AC connections through the 250W AC Power Supply.

3000W AC Power Supply Shelf

A 3000W AC Power Supply Shelf with integrated AC input is available for 120/240 VAC installations. The 3000W AC Power Supply Shelf can be mounted on a standard 19-inch rack and occupies one rack unit. It supports up to four power supplies for redundancy.

The following 7705 SAR platforms support AC connections through the 3000W AC Power Supply:

- SAR-8 Shelf V2 (–48 VDC systems only)
- SAR-18

CLI naming for adapter cards, modules, and platform ports

Table 4 lists the CLI name for each adapter card (MDA type) for the 7705 SAR platforms that support adapter cards.

Table 5 lists the CLI name for each module for the 7705 SAR platforms that support modules.

**Note:** All 7705 SAR platforms support the IOM, which uses the CLI naming convention iom-sar. The IOM is virtualized in the system software, and must be activated before any adapter cards or modules can be preprovisioned and configured.

Table 6 lists the CLI name for the group of ports on the 7705 SAR platforms that provide an integrated T1/E1, Ethernet, and/or other interface capability.

Table 4: CLI naming for adapter cards

| Adapter card                                    | SAR-8 Shelf V2 | SAR-18        |
|-------------------------------------------------|----------------|---------------|
| 2-port 10GigE (Ethernet) Adapter card           | a2-10gb-xfp    | a2-10gb-xfp   |
| 2-port OC3/STM1 Channelized Adapter card        | a2-choc3       | a2-choc3      |
| 4-port DS3/E3 Adapter card, v1                  | a4-chds3       | a4-chds3      |
| 4-port DS3/E3 Adapter card, v2                  | a4-chds3v2     | a4-chds3v2    |
| 4-port OC3/STM1 Clear Channel Adapter card      | a4-oc3         | a4-oc3        |
| 4-port OC3/STM1 / 1-port OC12/STM4 Adapter card | a4-choc3/12    | a4-choc3/12   |
| 6-port E&M Adapter card                         | a6-em          | a6-em         |
| 6-port Ethernet 10Gbps Adapter card, v1         | a6-eth-10G     | a6-eth-10G    |
| 6-port Ethernet 10Gbps Adapter card, v2         | a6-eth-10G-v2  | a6-eth-10G-v2 |
| 6-port Ethernet 10Gbps Adapter card-E           | a6-eth-10G-e   | a6-eth-10G-e  |
| 6-port FXS Adapter card                         | a6-fxs         | a6-fxs        |
| 8-port C37.94 Teleprotection card               | a8-c3794       | a8-c3794      |
| 8-port FXO Adapter card                         | a8-fxo         | a8-fxo        |
| 8-port Gigabit Ethernet Adapter card, v1        | a8-1gb-sfp     | a8-1gb-sfp    |
| 8-port Gigabit Ethernet Adapter card, v3        | a8-1gb-v3-sfp  | a8-1gb-v3-sfp |
| 8-port Voice & Teleprotection card              | a8-vt          | a8-vt         |
| 10-port 1GigE/1-port 10GigE X-Adapter card, v2  | —              | x-10GigE-v2   |
| 12-port Serial Data Interface card, v2          | a12-sdiv2      | a12-sdiv2     |
| 12-port Serial Data Interface card, v3          | a12-sdiv3      | a12-sdiv3     |
| 16-port T1/E1 ASAP Adapter card, v2             | a16-chds1v2    | a16-chds1v2   |
| 32-port T1/E1 ASAP Adapter card                 | a32-chds1v2    | a32-chds1v2   |
| Auxiliary Alarm card                            | aux-alarm      | aux-alarm     |

Table 4: CLI naming for adapter cards (Continued)

| Adapter card                  | SAR-8 Shelf V2 | SAR-18        |
|-------------------------------|----------------|---------------|
| CWDM OADM Adapter card        | oadm-cwdm-1ch  | oadm-cwdm-1ch |
|                               | oadm-cwdm-2ch  | oadm-cwdm-2ch |
|                               | oadm-cwdm-4ch  | oadm-cwdm-4ch |
|                               | oadm-cwdm-8ch  | oadm-cwdm-8ch |
| GNSS Receiver card            | a1-gnss        | a1-gnss       |
| Integrated Services card      | isc            | isc           |
| Packet Microwave Adapter card | a8-pmc         | a8-pmc        |
| Power Injector card           | mw-pic-2       | mw-pic-2      |

Table 5: CLI naming for modules

| Module                                     | SAR-8 Shelf V2 | SAR-18  | SAR-H    | SAR-M         |
|--------------------------------------------|----------------|---------|----------|---------------|
| 2-port 10GigE (Ethernet) module            | —              | —       | —        | p2-10gb-xfp   |
| 4-port SAR-H Fast Ethernet module          | —              | —       | p4-eth   | —             |
| 4-port T1/E1 and RS-232 Combination module | —              | —       | p4-combo | —             |
| 6-port SAR-M Ethernet module               | —              | —       | —        | p6-eth        |
| CSM <sup>(1)</sup>                         | —              | csm-10g | —        | —             |
| CSMv2 <sup>(1)</sup>                       | csmv2-10g      | —       | —        | —             |
| CWDM OADM module                           | —              | —       | —        | oadm-cwdm-1ch |
| GPS Receiver module                        | —              | —       | p1-gps   | —             |

Note:

- (1) The SAR-A, SAR-Ax, SAR-H, SAR-Hc, SAR-M, SAR-Wx, and SAR-X replace the CSM found in the SAR-8 Shelf V2 and SAR-18 with a control and switching functional block that is integrated into the chassis and does not need to be provisioned. It is shown in the CLI as CSM A with a provisioned type of csm-2.5g.

Table 6: CLI naming for platform ports

| Chassis | Ports                   |                |                        |
|---------|-------------------------|----------------|------------------------|
|         | T1/E1 ports             | Ethernet ports | Other ports            |
| SAR-A   | i8-chds1 <sup>(1)</sup> | i12-eth-xor    | —                      |
| SAR-Ax  | —                       | i12-1gb-xor    | i1-gnss <sup>(2)</sup> |
| SAR-H   | —                       | i8-1gb         | —                      |

Table 6: CLI naming for platform ports (Continued)

| Chassis | Ports                   |                |                       |
|---------|-------------------------|----------------|-----------------------|
|         | T1/E1 ports             | Ethernet ports | Other ports           |
| SAR-Hc  | —                       | i6-1gb         | i2-sdi <sup>(3)</sup> |
| SAR-M   | i16-chds <sup>(1)</sup> | i7-1gb         | —                     |
| SAR-Wx  | —                       | i5-1gb-b       | i1-gps <sup>(4)</sup> |
| SAR-X   | i8-chds1-x              | i7-mix-eth     | —                     |

Notes:

- (1) On the variant equipped with T1/E1 ports  
(2) GNSS RF port  
(3) RS-232 ports  
(4) GPS port, on the variants equipped with a GPS receiver

CLI card and port identifiers

In the CLI context for the SAR-8 Shelf V2 and SAR-18, adapter cards are referred to as MDAs. The cards are identified using the format *slot/mda*, where *slot* identifies the IOM slot ID (always 1) and *mda* identifies the physical slot in the chassis for the adapter card.

For the SAR-A, SAR-Ax, SAR-H, SAR-Hc, SAR-M, SAR-Wx, and SAR-X, the *mda* is a preset virtual slot number; configuration is not done at this level for these chassis.

Ports are identified using the format *slot/mda/port*, where *port* identifies the physical port on the adapter card or SAR-A, SAR-Ax, SAR-H, SAR-Hc, SAR-M, SAR-Wx, or SAR-X; for example, 1/5/1.

Channelized ports are identified using the format *slot/mda/port.channel-group-id*, where *channel-group-id* identifies the channel group ID; for example, 1/5/1.1.

Bundled channels are identified using the format *bundle-type-slot/mda.bundle-num*, where bundle is a keyword, *type* is either ppp (for MLPPP bundles) or ima (for IMA groups), and *bundle-num* is the bundle number; for example, bundle-ima-1/5.1.

Table 7 lists the available MDA slots per platform.

Table 7: MDA slots

| Chassis        | Available MDA slots                                                                                                                                                                                      |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SAR-8 Shelf V2 | Slots MDA 1 to 6                                                                                                                                                                                         |
| SAR-18         | Slots MDA 1 to 12 and XMDA 1 to 4 (X1 to X4 or 13 to 16)                                                                                                                                                 |
| SAR-A          | Slots 1 and 2 preconfigured as: <ul style="list-style-type: none"><li>Slot 1 for Ethernet ports (both variants)</li><li>Slot 2 for T1/E1 ports (only on the variant equipped with T1/E1 ports)</li></ul> |
| SAR-Ax         | Slots 1 and 2 preconfigured as: <ul style="list-style-type: none"><li>Slot 1 for Ethernet ports</li><li>Slot 2 for the GNSS RF ports</li></ul>                                                           |

Table 7: MDA slots (Continued)

| Chassis | Available MDA slots                                                                                                                                                                                                                                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SAR-H   | Slots 1 to 3 preconfigured as: <ul style="list-style-type: none"><li>Slot 1 for Ethernet ports</li><li>Slot 2 for module slot position 1</li><li>Slot 3 for module slot position 2</li></ul>                                                                                                                                        |
| SAR-Hc  | Slots 1 and 2 preconfigured as: <ul style="list-style-type: none"><li>Slot 1 for Ethernet ports</li><li>Slot 2 for RS-232 ports</li></ul>                                                                                                                                                                                           |
| SAR-M   | Slots 1 to 3 preconfigured as: <ul style="list-style-type: none"><li>Slot 1 for Ethernet ports</li><li>Slot 2 for T1/E1 ports (only on the variant equipped with T1/E1 ports)</li><li>Slot 3 for modules</li></ul>                                                                                                                  |
| SAR-Wx  | Slots 1 and 3 preconfigured as: <ul style="list-style-type: none"><li>Slot 1 for Ethernet ports</li><li>Slot 3 for GPS RF ports (only on the variants that support GPS)</li></ul>                                                                                                                                                   |
| SAR-X   | Slots 1 to 3 preconfigured as: <ul style="list-style-type: none"><li>Slot 1 for T1/E1 ports</li><li>Slot 2 for Ethernet ports: XOR (either RJ-45 or SFP) GigE ports, SFP GigE ports, or SFP+ 10-GigE ports</li><li>Slot 3 for Ethernet ports: XOR (either RJ-45 or SFP) GigE ports, SFP GigE ports, or SFP+ 10-GigE ports</li></ul> |

Base part numbers

Table 8 lists the base part numbers of the 7705 SAR platforms and common equipment. Table 9 lists the base part numbers of the adapter cards and modules.

For full part numbers and details on variants, refer to the latest 7705 SAR Software Release Notes.

Table 8: 7705 SAR platforms and common equipment

| Description                  | Nokia base part number |
|------------------------------|------------------------|
| 100W HV Power Supply         | 3HE06972               |
| 7705 SAR-18                  | 3HE04991               |
| 7705 SAR-18 Alarm Module, v1 | 3HE04994               |
| 7705 SAR-18 Alarm Module, v2 |                        |

Table 8: 7705 SAR platforms and common equipment (Continued)

| Description                                                   | Nokia base part number |
|---------------------------------------------------------------|------------------------|
| 7705 SAR-18 Control and Switching Module (CSM)                | 3HE04992               |
| 7705 SAR-18 Fan Module                                        | 3HE04993               |
| 7705 SAR-8 CSMv2                                              | 3HE02774               |
| 7705 SAR-8 Shelf V2                                           | 3HE06791               |
| 7705 SAR-8 Shelf V2 Ext. Temp Fan Module                      | 3HE06792               |
| 7705 SAR-A with 12 Ethernet ports                             | 3HE06796               |
| 7705 SAR-A with 12 Ethernet ports, 8 T1/E1 ports              | 3HE06797               |
| 7705 SAR-Ax                                                   | 3HE10329               |
| 7705 SAR-H                                                    | 3HE06969               |
| 7705 SAR-H 100W 48 VDC Power Supply                           | 3HE06970               |
| 7705 SAR-Hc                                                   | 3HE07353               |
| 7705 SAR-M with 16 T1/E1 ports, 7 GigE ports                  | 3HE05051               |
| 7705 SAR-M with 7 GigE ports                                  | 3HE05653               |
| 7705 SAR-Wx with 5 GigE ports and AC power                    | 3HE07614               |
| 7705 SAR-Wx with 5 GigE ports, GPS Rx, and AC power           | 3HE07615               |
| 7705 SAR-Wx with 5 GigE ports (1 PoE+) and AC power           | 3HE07616               |
| 7705 SAR-Wx with 5 GigE ports, (1 PoE+), GPS Rx, and AC power | 3HE07617               |
| 7705 SAR-X, AC power                                          | 3HE08533               |
| 7705 SAR-X, DC power                                          | 3HE08534               |

Table 9: 7705 SAR adapter cards and modules

| Description                              | Nokia base part number |
|------------------------------------------|------------------------|
| 2-port 10GigE (Ethernet) Adapter card    | 3HE06789               |
| 2-port 10GigE (Ethernet) module          | 3HE06788               |
| 2-port OC3/STM1 Channelized Adapter card | 3HE03127               |

Table 9: 7705 SAR adapter cards and modules (Continued)

| Description                                     | Nokia base part number |
|-------------------------------------------------|------------------------|
| 4-port DS3/E3 Adapter card, v1                  | 3HE04962               |
| 4-port DS3/E3 Adapter card, v2                  |                        |
| 4-port OC3/STM1 Clear Channel Adapter card      | 3HE03125               |
| 4-port OC3/STM1 / 1-port OC12/STM4 Adapter card | 3HE07938               |
| 4-port SAR-H Fast Ethernet module               | 3HE09303               |
| 4-port T1/E1 and RS-232 Combination module      | 3HE06973               |
| 6-port E&M Adapter card                         | 3HE03126               |
| 6-port Ethernet 10Gbps Adapter card, v1         | 3HE07943               |
| 6-port Ethernet 10Gbps Adapter card, v2         |                        |
| 6-port Ethernet 10Gbps Adapter card-E           | 3HE12433               |
| 6-port FXS Adapter card                         | 3HE02780               |
| 6-port SAR-M Ethernet module                    | 3HE09170               |
| 8-port C37.94 Teleprotection card               | 3HE12504               |
| 8-port FXO Adapter card                         | 3HE06794               |
| 8-port Gigabit Ethernet Adapter card, v1        | 3HE06151               |
| 8-port Gigabit Ethernet Adapter card, v3        |                        |
| 8-port Voice & Teleprotection card              | 3HE06006               |
| 10-port 1GigE/1-port 10GigE X-Adapter card, v2  | 3HE06153               |
| 12-port Serial Data Interface card, v2          | 3HE03391               |
| 12-port Serial Data Interface card, v3          |                        |
| 16-port T1/E1 ASAP Adapter card, v2             | 3HE02775               |
| 32-port T1/E1 ASAP Adapter card, v2             | 3HE02781               |
| Auxiliary Alarm card                            | 3HE02772               |
| CWDM OADM Adapter card (1-channel)              | 3HE06582               |
| CWDM OADM Adapter card (2-channel)              | 3HE06583               |
| CWDM OADM Adapter card (4-channel)              | 3HE06584               |
| CWDM OADM Adapter card (8-channel)              | 3HE06585               |

Table 9: 7705 SAR adapter cards and modules (Continued)

| Description                   | Nokia base part number |
|-------------------------------|------------------------|
| CWDM OADM module (1-channel)  | 3HE06582               |
| GNSS Receiver card            | 3HE07954               |
| GPS Receiver module           | 3HE07955               |
| Integrated Services card      | 3HE07942               |
| Packet Microwave Adapter card | 3HE02782               |
| Power Injector card           | 3HE07152               |

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