

7705 Service Aggregation Router

Card and Module Support Quick Reference Card, Release 8.0

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 | SAR-18 | SAR-A | SAR-Ax | SAR-H | SAR-Hc |
|---|--|--|--|---|---|
| SAR-8: 12 Gb/s HD SAR-8 Shelf V2: 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 Wall-mountable | DIN rail-mountable Wall-mountable Panel-mountable |
| <p>The SAR-8 is an 8-slot chassis that supports:</p> <ul style="list-style-type: none"> • 2 CSMs • 1 Fan module (with alarm functionality) • 6 adapter cards | <p>The SAR-18 is an 18-slot chassis that supports:</p> <ul style="list-style-type: none"> • 2 CSMs • 1 Fan module • 1 alarm module • 16 adapter cards (up to 12 1-Gb/s and 2.5-Gb/s cards and up to 4 10-Gb/s cards) | <p>The SAR-A is a fixed chassis with two variants:</p> <ul style="list-style-type: none"> • passively cooled chassis with 12 Ethernet ports and 8 T1/E1 ports • passively cooled chassis with 12 Ethernet ports and no T1/E1 ports | <p>The SAR-Ax is a fixed chassis with 12 Ethernet ports:</p> <ul style="list-style-type: none"> • 4 combination (XOR) ports that can be configured as either RJ-45 10/100/1000 Ethernet ports or 100/1000 SPF Ethernet ports • 8 100/1000 Ethernet ports <p>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.</p> | <p>The SAR-H is a fixed chassis that has:</p> <ul style="list-style-type: none"> • 2 SFP GigE ports • 2 combination SFP/RJ-45 10/100/1000 Ethernet ports • 4 PoE-capable RJ-45 10/100/1000 Ethernet ports • 2 module slots <p>Connecting a PoE Power Supply increases the number of Ethernet ports that can supply PoE to a connected device.</p> <p>There are two variants of the SAR-H chassis:</p> <ul style="list-style-type: none"> • high-voltage AC/DC for 100/240 VAC and 110-250 VDC installations (includes integrated AC input) • low-voltage DC for -48/-60 and +24 VDC installations | <p>The SAR-Hc is a fixed chassis that has:</p> <ul style="list-style-type: none"> • 2 SFP GigE ports • 2 RJ-45 10/100/1000 Ethernet ports • 2 PoE-capable RJ-45 10/100/1000 Ethernet ports • 2 RS-232 ports |

Table 1: Platform Notes (Continued)



| SAR-M | SAR-O | SAR-W | SAR-Wx | SAR-X |
|--|---|---|--|---|
| 10 Gb/s HD | Passive (no HD) | 10 Gb/s HD | 10 Gb/s HD | 54 Gb/s HD |
| Rack-mountable: 1 RU | Pole-mountable Wall-mountable Rack-mountable: 1 RU Cabinet-mountable | Pole-mountable Wall-mountable Cable strand-mountable Rack-mountable: 1 RU Cabinet-mountable | Pole-mountable Wall-mountable Cable strand-mountable | Rack-mountable: 1 RU |
| <p>The SAR-M is a fixed chassis with four variants:</p> <ul style="list-style-type: none"> fan-cooled chassis with 7 GigE ports, 16 T1/E1 ports, and 1 module slot fan-cooled chassis with 7 GigE ports, no T1/E1 ports, and 1 module slot passively cooled chassis with 7 GigE ports, 16 T1/E1 ports, and no module slots passively cooled chassis with 7 GigE ports, no T1/E1 ports, and no module slots | <p>The SAR-O is a passive, unpowered optical unit with 14 models that are used to add and drop CWDM wavelengths from an optical network. The models are available in three variants:</p> <ul style="list-style-type: none"> a 2-wavelength CWDM dual-fiber variant (8 models) a 4-wavelength CWDM dual-fiber variant (4 models) an 8-wavelength CWDM single-fiber variant (2 models) | <p>The SAR-W is a fixed, ruggedized, environmentally hardened chassis that has:</p> <ul style="list-style-type: none"> 3 SFP GigE ports 2 PoE+ capable RJ-45 GigE ports | <p>The SAR-Wx is a fixed, ruggedized, environmentally hardened chassis with six variants:</p> <ul style="list-style-type: none"> chassis with 3 SFP GigE ports, 2 RJ-45 GigE ports, and an RJ-45 alarm input connector chassis with 3 SFP GigE ports, 2 RJ-45 GigE ports, an RJ-45 alarm input connector, and a GPS receiver chassis with 3 SFP GigE ports, 1 RJ-45 GigE port, 1 PoE+ RJ-45 GigE port, and an RJ-45 alarm input connector 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 chassis with 3 SFP GigE ports, 1 RJ-45 GigE port, 1 RJ-45 4-pair xDSL port, and an RJ-45 alarm input connector chassis with 3 SFP GigE ports, 1 RJ-45 GigE port, 1 RJ-45 4-pair xDSL port, an RJ-45 alarm input connector, and a GPS receiver | <p>The SAR-X is a fixed chassis that has 8 T1/E1 ports, 4 combination (XOR) GigE ports (each can be configured either as RJ-45 or SFP), 8 SFP GigE ports, and 2 SFP+10-GigE ports.</p> <p>There are two variants of the SAR-X chassis:</p> <ul style="list-style-type: none"> AC variant can use a 100 to 240 VAC power source DC variant can use a single or dual +24/48/60 VDC power source |

Adapter Card Support

Table 2 lists the adapter cards supported on the 7705 SAR-8 and SAR-18. Adapter cards cannot be installed in the other chassis.

Table 2: Platform and Adapter Card Support

| Adapter Card | SAR-8 | SAR-18 |
|--|---------------|----------------|
| 2-port 10GigE (Ethernet) card | Up to 4 cards | Up to 6 cards |
| 2-port OC3/STM1 Channelized card ⁽¹⁾ | 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 ⁽¹⁾ | Up to 4 cards | Up to 6 cards |
| 4-port DS3/E3 card ⁽¹⁾ | Up to 6 cards | Up to 12 cards |
| 6-port E&M card ⁽²⁾ | Up to 6 cards | Up to 12 cards |
| 6-port Ethernet 10Gbps card | Up to 6 cards | Up to 12 cards |
| 6-port FXS card ⁽²⁾ | Up to 6 cards | Up to 12 cards |
| 8-port Ethernet card, ver 2 | Up to 6 cards | Up to 12 cards |
| 8-port FXO card ⁽²⁾ | 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 ⁽²⁾ | Up to 6 cards | Up to 12 cards |
| 10-port 1 GigE/1-port 10 GigE X-Adapter card | — | Up to 4 cards |
| 12-port Serial Data Interface card ⁽²⁾ | Up to 6 cards | Up to 12 cards |
| 16-port T1/E1 ASAP card, ver 2 | 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 ⁽²⁾ | 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 7705 SAR-8 chassis with a CSMv2, a maximum of six 2-port OC3/STM1 Channelized Adapter cards and 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, four 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 and 4-port DS3/E3 Adapter cards can be installed in MDA slots 1 to 6.

On a SAR-18 chassis, a maximum of twelve 2-port OC3/STM1 Channelized Adapter cards and 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, six 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 and 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.

(2) Because this card supports access mode only, for network applications, at least one of the other installed cards must be a network-capable adapter card.

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 | SAR-18 | SAR-M ⁽¹⁾ | SAR-H |
|---|-----------------|-----------------|----------------------|-----------------|
| 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 DSL Combination module | — | — | 1 module | — |
| 6-port SAR-M Ethernet module ⁽²⁾ | — | — | 1 module | — |
| 8-port xDSL module | — | — | 1 module | — |
| Alarm module | — | 1 module | — | — |
| CSM | — | Up to 2 modules | — | — |
| CSMv2 | Up to 2 modules | — | — | — |
| CWDM OADM module | — | — | 1 module | — |
| Fan module | 1 module | 1 module | — | — |
| GPON module | — | — | 1 module | — |
| GPS Receiver module | — | — | — | 1 module |

Notes:

(1) Modules are only supported on the SAR-M variants with a module slot (fan-cooled).

(2) 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 Unit

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

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

2500W AC Power Supply Shelf

A 2500W AC Power Supply Shelf with integrated AC input is available for 240 VAC installations. The 2500W 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 2500W AC Power Supply:

- SAR-8 and 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 | SAR-18 |
|---|--|--|
| 2-port 10GigE (Ethernet) card | a2-10gb-xfp | a2-10gb-xfp |
| 2-port OC3/STM1 Channelized card | a2-choc3 | a2-choc3 |
| 4-port OC3/STM1 /1-port OC12/STM4 card | a4-choc3/12 | a4-choc3/12 |
| 4-port OC3/STM1 Clear Channel card | a4-oc3 | a4-oc3 |
| 4-port DS3/E3 card | a4-chds3 | a4-chds3 |
| 6-port E&M card | a6-em | a6-em |
| 6-port FXS card | a6-fxs | a6-fxs |
| 6-port Ethernet 10 Gbps card | a6-eth-10G | a6-eth-10G |
| 8-port Ethernet card, ver 2 | a8-ethv2 | a8-ethv2 |
| 8-port FXO card | a8-fxo | a8-fxo |
| 8-port Gigabit Ethernet card, ver 1 | a8-1gb-sfp | a8-1gb-sfp |
| 8-port Gigabit Ethernet card, ver 2 | a8-1gb-v2-sfp | a8-1gb-v2-sfp |
| 8-port Gigabit Ethernet card, ver 3 | a8-1gb-v3-sfp | a8-1gb-v3-sfp |
| 8-port Voice & Teleprotection card | a8-vt | a8-vt |
| 10-port 1 GigE/1-port 10 GigE X-Adapter card, ver 1 | — | x-10GigE |
| 10-port 1 GigE/1-port 10 GigE X-Adapter card, ver 2 | — | x-10GigE-v2 |
| 12-port Serial Data Interface card | a12-sdi | a12-sdi |
| 12-port Serial Data Interface card, ver 2 | a12-sdiv2 | a12-sdiv2 |
| 16-port T1/E1 ASAP card, ver 2 | a16-chds1v2 | a16-chds1v2 |
| 32-port T1/E1 ASAP card | a32-chds1v2 | a32-chds1v2 |
| Auxiliary Alarm card | aux-alarm | aux-alarm |
| CWDM OADM card | oadm-cwdm-1ch oadm-cwdm-2ch oadm-cwdm-4ch oadm-cwdm-8ch | oadm-cwdm-1ch oadm-cwdm-2ch oadm-cwdm-4ch oadm-cwdm-8ch |
| GNSS Receiver card | a1-gnss | a1-gnss |
| Integrated Services card | isc | isc |
| Packet Microwave card | a8-pmc | a8-pmc |
| Power Injector card | mw-pic-2 | mw-pic-2 |

Table 5: CLI Naming for Modules

| Module | SAR-8 | SAR-18 | SAR-H | SAR-M ⁽¹⁾ |
|--|-----------|---------|----------|----------------------|
| 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 DSL Combination module | — | — | — | p6-dcm |
| 6-port SAR-M Ethernet module | — | — | — | p6-eth |
| 8-port xDSL module | — | — | — | p8-xdsl |
| CSM ⁽²⁾ | — | csm-10g | — | — |
| CSMv2 ⁽²⁾ | csmv2-10g | — | — | — |
| CWDM OADM module | — | — | — | oadm-cwdm-1ch |
| GPS Receiver module | — | — | p1-gps | — |
| GPON module | — | — | — | p1-gpon |

Notes:

- Modules are only supported on the SAR-M variants with a module slot (fan-cooled).
- The SAR-A, SAR-Ax, SAR-H, SAR-Hc, SAR-M, SAR-W, SAR-Wx, and SAR-X replace the CSM found in the SAR-8 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 ⁽¹⁾ | i12-eth-xor | — |
| SAR-Ax | — | i12-1gb-xor | i1-gnss ⁽²⁾ |
| SAR-H | — | i8-1gb | — |
| SAR-Hc | — | i6-1gb | i2-sdi ⁽³⁾ |
| SAR-M | i16-chds ⁽¹⁾ | i7-1gb | — |
| SAR-W | — | i5-1gb | — |
| SAR-Wx | — | i4-1gb-b ⁽⁴⁾ i5-1gb-b ⁽⁵⁾ | i4-xdsl ⁽⁶⁾ i1-gps ⁽⁷⁾ |

Table 6: CLI Naming for Platform Ports (Continued)

| Chassis | Ports | | |
|---------|-------------|----------------|-------------|
| | T1/E1 ports | Ethernet ports | Other ports |
| SAR-X | i8-chds1-x | i7-mix-eth | — |

Notes:

- On the variants equipped with T1/E1 ports
- GNSS RF port
- RS-232 ports
- On the variants equipped with four Ethernet ports
- On the variants equipped with five Ethernet ports
- On the variants equipped with an xDSL port
- GPS port, on the variants equipped with a GPS receiver

CLI Card and Port Identifiers

In the CLI context for the SAR-8 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-W, SAR-Wx, and SAR-X, the *mda* is a preset virtual slot number; configuration is not done at this level for these chassis.

The SAR-O is a passive unit that requires no CLI configuration.

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-W, 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 | 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"> Slot 1 for Ethernet ports (both variants) Slot 2 for T1/E1 ports (only on the variant equipped with T1/E1 ports) |
| SAR-Ax | Slots 1 and 2 preconfigured as: <ul style="list-style-type: none"> Slot 1 for Ethernet ports Slot 2 for the GNSS RF ports |

Table 7: MDA Slots (Continued)

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

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 7705 SAR OS 8.0.Rx Software Release Notes, part number 3HE11057000xTQZZA.

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 | 3HE04994 |
| 7705 SAR-18 Control and Switching Module (CSM) | 3HE04992 |
| 7705 SAR-18 Fan Module | 3HE04993 |
| 7705 SAR-8 | 3HE02773 |
| 7705 SAR-8 CSMv2 | 3HE02774 |
| 7705 SAR-8 Fan Module | 3HE02778 |
| 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-M Fanless with 16 T1/E1 ports, 7 GigE ports | 3HE06790 |
| 7705 SAR-M Fanless with 7 GigE ports | 3HE06793 |
| 7705 SAR-O 2-wavelength 1471/1491 | 3HE09126 |
| 7705 SAR-O 2-wavelength 1511/1531 | 3HE09127 |
| 7705 SAR-O 2-wavelength 1551/1571 | 3HE09128 |

Table 8: 7705 SAR Platforms and Common Equipment (Continued)

| Description | Nokia Base Part Number |
|---|------------------------|
| 7705 SAR-O 2-wavelength 1591/1611 | 3HE09129 |
| 7705 SAR-O 2-wavelength 1271/1291 | 3HE09641 |
| 7705 SAR-O 2-wavelength 1311/1331 | 3HE09642 |
| 7705 SAR-O 2-wavelength 1351/1371 | 3HE09643 |
| 7705 SAR-O 2-wavelength 1431/1451 | 3HE09644 |
| 7705 SAR-O 4-wavelength variants (4 models) | 3HE07939 |
| 7705 SAR-O 8-wavelength variants (2 models) | 3HE07940 |
| 7705 SAR-W | 3HE07349 |
| 7705 SAR-Wx with 4 GigE ports, 4-pair xDSL port, and AC power | 3HE07618 |
| 7705 SAR-Wx with 4 GigE ports, 4-pair xDSL port, GPS Rx, and AC power | 3HE07619 |
| 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 |
|--|------------------------|
| 10-port 1GigE/1-port 10GigE X-Adapter Card | 3HE06153 |
| 10-port 1GigE/1-port 10GigE X-Adapter Card, v2 | |
| 12-port Serial Data Interface Card | 3HE03391 |
| 12-port Serial Data Interface Card v2 | |
| 16-port T1/E1 ASAP Adapter Card, v2 | 3HE02775 |
| 2-port 10GigE (Ethernet) Adapter Card | 3HE06789 |
| 2-port 10GigE (Ethernet) Module | 3HE06788 |

Table 9: 7705 SAR Adapter Cards and Modules (Continued)

| Description | Nokia Base Part Number |
|---|------------------------|
| 2-port OC3/STM1 Channelized Adapter Card | 3HE03127 |
| 32-port T1/E1 ASAP Adapter Card, v2 | 3HE02781 |
| 4-port DS3/E3 Adapter Card | 3HE04962 |
| 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 Ethernet 10Gbps Adapter Card | 3HE07943 |
| 6-port E&M Adapter Card | 3HE03126 |
| 6-port FXS Adapter Card | 3HE02780 |
| 6-port DSL Combination Module | 3HE05914 |
| 6-port SAR-M Ethernet Module | 3HE09170 |
| 8-port Ethernet Adapter Card, v2 | 3HE02776 |
| 8-port FXO Adapter Card | 3HE06794 |
| 8-port Gigabit Ethernet Adapter Card | 3HE06151 |
| 8-port Gigabit Ethernet Adapter Card, v2 | |
| 8-port Gigabit Ethernet Adapter Card, v3 | |
| 8-port Voice & Teleprotection Card | 3HE06006 |
| 8-port xDSL Module | 3HE05577 |
| 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 |
| CWDM OADM Module (1-channel) | 3HE06582 |

Table 9: 7705 SAR Adapter Cards and Modules (Continued)

| Description | Nokia Base Part Number |
|-------------------------------|------------------------|
| GNSS Receiver Card | 3HE07954 |
| GPON Module | 3HE05126 |
| GPS Receiver Module | 3HE07955 |
| Integrated Services Card | 3HE07942 |
| Packet Microwave Adapter Card | 3HE02782 |
| Power Injector Card | 3HE07152 |

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