



# CVE-2019-2332

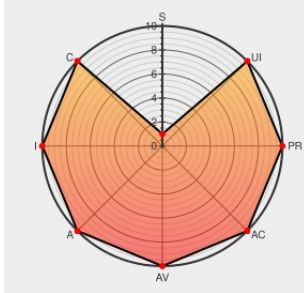
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## CVE-2019-2332

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

CVSS:31/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H



Certain versions of [Mdm9150](#) from [Qualcomm](#) contain the following vulnerability:

Memory corruption while accessing the memory as payload size is not validated before access in Snapdragon Auto, Snapdragon Compute, Snapdragon Consumer IOT, Snapdragon Industrial IOT, Snapdragon IoT, Snapdragon Mobile, Snapdragon Voice & Music, Snapdragon Wearables in MDM9150, MDM9206, MDM9607, MDM9615, MDM9640,

MDM9650, MSM8909W, MSM8996AU, QCS405, QCS605, Qualcomm 215, SD 210/SD 212/SD 205, SD 425, SD 427, SD 430, SD 435, SD 439 / SD 429, SD 450, SD 600, SD 615/16/SD 415, SD 625, SD 632, SD 636, SD 665, SD 675, SD 712 / SD 710 / SD 670, SD 730, SD 820, SD 820A, SD 835, SD 845 / SD 850, SD 855, SDA660, SDM439, SDM630, SDM660, SDX20, SDX24

CVE-2019-2332 has been assigned by [Q](#) product-security@qualcomm.com to track the vulnerability - currently rated as **CRITICAL** severity.

Affected Vendor/Software: [Q](#) Qualcomm, Inc. - Snapdragon Auto, Snapdragon Compute, Snapdragon Consumer IOT, Snapdragon Industrial IOT, Snapdragon IoT, Snapdragon Mobile, Snapdragon Voice & Music, Snapdragon Wearables version MDM9150, MDM9206, MDM9607, MDM9615, MDM9640, MDM9650, MSM8909W, MSM8996AU, QCS405, QCS605, Qualcomm 215, SD 210/SD 212/SD 205, SD 425, SD 427, SD 430, SD 435, SD 439 / SD 429, SD 450, SD 600, SD 615/16/SD 415, SD 625, SD 632, SD 636, SD 665, SD 675, SD 712 / SD 710 / SD 670, SD 730, SD 820, SD 820A, SD 835, SD 845 / SD 850, SD 855, SDA660, SDM439, SDM630, SDM660, SDX20, SDX24

CVSS3 Score: **9.8 - CRITICAL**

| Attack Vector    | Attack Complexity      | Privileges Required | User Interaction    |
|------------------|------------------------|---------------------|---------------------|
| <b>NETWORK</b>   | <b>LOW</b>             | <b>NONE</b>         | <b>NONE</b>         |
| Scope            | Confidentiality Impact | Integrity Impact    | Availability Impact |
| <b>UNCHANGED</b> | <b>HIGH</b>            | <b>HIGH</b>         | <b>HIGH</b>         |

CVSS2 Score: **10 - HIGH**

| Access Vector | Access Complexity | Authentication |
|---------------|-------------------|----------------|
|---------------|-------------------|----------------|

|                        |                  |                     |
|------------------------|------------------|---------------------|
| NETWORK                | LOW              | NONE                |
| Confidentiality Impact | Integrity Impact | Availability Impact |
| COMPLETE               | COMPLETE         | COMPLETE            |

CVE References

| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Tags                                                                                           | Link                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Android Security Bulletins   Android Open Source Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <div>Patch</div> <div>Vendor Advisory</div> <div>source.android.com</div> <div>text/html</div> |  <a href="https://source.android.com/security/bulletin/">CONFIRM source.android.com/security/bulletin/</a> |
| <p>By selecting these links, you may be leaving CVEreport webspace. We have provided these links to other websites because they may have information that would be of interest to you. No inferences should be drawn on account of other sites being referenced, or not, from this page. There may be other websites that are more appropriate for your purpose. CVEreport does not necessarily endorse the views expressed, or concur with the facts presented on these sites. Further, CVEreport does not endorse any commercial products that may be mentioned on these sites. Please address comments about any linked pages to <a href="mailto:comment@cve.report">comment@cve.report</a>.</p> |                                                                                                |                                                                                                                                                                                             |

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

| Type                                                                                         | Vendor                   | Product                          | Version | Update | Edition | Language |
|----------------------------------------------------------------------------------------------|--------------------------|----------------------------------|---------|--------|---------|----------|
| Hardware  | <a href="#">Qualcomm</a> | <a href="#">Mdm9150</a>          | -       | All    | All     | All      |
| Hardware  | <a href="#">Qualcomm</a> | <a href="#">Mdm9150</a>          | -       | All    | All     | All      |
| Operating System                                                                             | <a href="#">Qualcomm</a> | <a href="#">Mdm9150 Firmware</a> | -       | All    | All     | All      |
| Operating System                                                                             | <a href="#">Qualcomm</a> | <a href="#">Mdm9150 Firmware</a> | -       | All    | All     | All      |
| Hardware  | <a href="#">Qualcomm</a> | <a href="#">Mdm9206</a>          | -       | All    | All     | All      |
| Hardware  | <a href="#">Qualcomm</a> | <a href="#">Mdm9206</a>          | -       | All    | All     | All      |
| Operating System                                                                             | <a href="#">Qualcomm</a> | <a href="#">Mdm9206 Firmware</a> | -       | All    | All     | All      |
| Operating System                                                                             | <a href="#">Qualcomm</a> | <a href="#">Mdm9206 Firmware</a> | -       | All    | All     | All      |
| Hardware  | <a href="#">Qualcomm</a> | <a href="#">Mdm9607</a>          | -       | All    | All     | All      |
| Hardware  | <a href="#">Qualcomm</a> | <a href="#">Mdm9607</a>          | -       | All    | All     | All      |
| Operating System                                                                             | <a href="#">Qualcomm</a> | <a href="#">Mdm9607 Firmware</a> | -       | All    | All     | All      |
| Operating System                                                                             | <a href="#">Qualcomm</a> | <a href="#">Mdm9607 Firmware</a> | -       | All    | All     | All      |
| Hardware  | <a href="#">Qualcomm</a> | <a href="#">Mdm9615</a>          | -       | All    | All     | All      |
| Hardware  | <a href="#">Qualcomm</a> | <a href="#">Mdm9615</a>          | -       | All    | All     | All      |

|                                                                                                                                                                                  |          |                    |   |     |     |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|---|-----|-----|-----|
| Operating System                                                                                                                                                                 | Qualcomm | Mdm9615 Firmware   | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Mdm9615 Firmware   | - | All | All | All |
| Hardware       | Qualcomm | Mdm9640            | - | All | All | All |
| Hardware       | Qualcomm | Mdm9640            | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Mdm9640 Firmware   | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Mdm9640 Firmware   | - | All | All | All |
| Hardware       | Qualcomm | Mdm9650            | - | All | All | All |
| Hardware       | Qualcomm | Mdm9650            | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Mdm9650 Firmware   | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Mdm9650 Firmware   | - | All | All | All |
| Hardware       | Qualcomm | Msm8909w           | - | All | All | All |
| Hardware     | Qualcomm | Msm8909w           | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Msm8909w Firmware  | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Msm8909w Firmware  | - | All | All | All |
| Hardware   | Qualcomm | Msm8996au          | - | All | All | All |
| Hardware   | Qualcomm | Msm8996au          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Msm8996au Firmware | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Msm8996au Firmware | - | All | All | All |
| Hardware   | Qualcomm | Qcs405             | - | All | All | All |
| Hardware   | Qualcomm | Qcs405             | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Qcs405 Firmware    | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Qcs405 Firmware    | - | All | All | All |
| Hardware   | Qualcomm | Qcs605             | - | All | All | All |
| Hardware   | Qualcomm | Qcs605             | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Qcs605 Firmware    | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Qcs605 Firmware    | - | All | All | All |

|                                                                                                                                                                                  |          |                       |   |     |     |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------|---|-----|-----|-----|
| Hardware         | Qualcomm | Qualcomm 215          | - | All | All | All |
| Hardware       | Qualcomm | Qualcomm 215          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Qualcomm 215 Firmware | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Qualcomm 215 Firmware | - | All | All | All |
| Hardware       | Qualcomm | Sda660                | - | All | All | All |
| Hardware       | Qualcomm | Sda660                | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sda660 Firmware       | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sda660 Firmware       | - | All | All | All |
| Hardware       | Qualcomm | Sdm439                | - | All | All | All |
| Hardware       | Qualcomm | Sdm439                | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sdm439 Firmware       | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sdm439 Firmware       | - | All | All | All |
| Hardware   | Qualcomm | Sdm630                | - | All | All | All |
| Hardware   | Qualcomm | Sdm630                | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sdm630 Firmware       | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sdm630 Firmware       | - | All | All | All |
| Hardware   | Qualcomm | Sdm660                | - | All | All | All |
| Hardware   | Qualcomm | Sdm660                | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sdm660 Firmware       | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sdm660 Firmware       | - | All | All | All |
| Hardware   | Qualcomm | Sdx20                 | - | All | All | All |
| Hardware   | Qualcomm | Sdx20                 | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sdx20 Firmware        | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sdx20 Firmware        | - | All | All | All |
| Hardware   | Qualcomm | Sdx24                 | - | All | All | All |
| Hardware   | Qualcomm | Sdx24                 | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sdx24 Firmware        | - | All | All | All |

|                                                                                                                                                                                  |          |                 |   |     |     |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|---|-----|-----|-----|
| Operating System                                                                                                                                                                 | Qualcomm | Sdx24 Firmware  | - | All | All | All |
| Hardware       | Qualcomm | Sd 205          | - | All | All | All |
| Hardware       | Qualcomm | Sd 205          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 205 Firmware | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 205 Firmware | - | All | All | All |
| Hardware       | Qualcomm | Sd 210          | - | All | All | All |
| Hardware       | Qualcomm | Sd 210          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 210 Firmware | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 210 Firmware | - | All | All | All |
| Hardware       | Qualcomm | Sd 212          | - | All | All | All |
| Hardware       | Qualcomm | Sd 212          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 212 Firmware | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 212 Firmware | - | All | All | All |
| Hardware   | Qualcomm | Sd 415          | - | All | All | All |
| Hardware   | Qualcomm | Sd 415          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 415 Firmware | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 415 Firmware | - | All | All | All |
| Hardware   | Qualcomm | Sd 425          | - | All | All | All |
| Hardware   | Qualcomm | Sd 425          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 425 Firmware | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 425 Firmware | - | All | All | All |
| Hardware   | Qualcomm | Sd 427          | - | All | All | All |
| Hardware   | Qualcomm | Sd 427          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 427 Firmware | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 427 Firmware | - | All | All | All |
| Hardware   | Qualcomm | Sd 429          | - | All | All | All |

|                                                                                                                                                                                  |          |                                 |   |     |     |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------|---|-----|-----|-----|
| Hardware         | Qualcomm | <a href="#">Sd 429</a>          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | <a href="#">Sd 429 Firmware</a> | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | <a href="#">Sd 429 Firmware</a> | - | All | All | All |
| Hardware       | Qualcomm | <a href="#">Sd 430</a>          | - | All | All | All |
| Hardware       | Qualcomm | <a href="#">Sd 430</a>          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | <a href="#">Sd 430 Firmware</a> | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | <a href="#">Sd 430 Firmware</a> | - | All | All | All |
| Hardware       | Qualcomm | <a href="#">Sd 435</a>          | - | All | All | All |
| Hardware       | Qualcomm | <a href="#">Sd 435</a>          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | <a href="#">Sd 435 Firmware</a> | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | <a href="#">Sd 435 Firmware</a> | - | All | All | All |
| Hardware     | Qualcomm | <a href="#">Sd 439</a>          | - | All | All | All |
| Hardware   | Qualcomm | <a href="#">Sd 439</a>          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | <a href="#">Sd 439 Firmware</a> | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | <a href="#">Sd 439 Firmware</a> | - | All | All | All |
| Hardware   | Qualcomm | <a href="#">Sd 450</a>          | - | All | All | All |
| Hardware   | Qualcomm | <a href="#">Sd 450</a>          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | <a href="#">Sd 450 Firmware</a> | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | <a href="#">Sd 450 Firmware</a> | - | All | All | All |
| Hardware   | Qualcomm | <a href="#">Sd 600</a>          | - | All | All | All |
| Hardware   | Qualcomm | <a href="#">Sd 600</a>          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | <a href="#">Sd 600 Firmware</a> | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | <a href="#">Sd 600 Firmware</a> | - | All | All | All |
| Hardware   | Qualcomm | <a href="#">Sd 615</a>          | - | All | All | All |
| Hardware   | Qualcomm | <a href="#">Sd 615</a>          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | <a href="#">Sd 615 Firmware</a> | - | All | All | All |
| Operating                                                                                                                                                                        | Qualcomm | <a href="#">Sd 615 Firmware</a> | - | All | All | All |

|                                                                                                                                                                                  |          |                 |   |     |     |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|---|-----|-----|-----|
| System                                                                                                                                                                           |          |                 |   |     |     |     |
| Hardware       | Qualcomm | Sd 616          | - | All | All | All |
| Hardware       | Qualcomm | Sd 616          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 616 Firmware | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 616 Firmware | - | All | All | All |
| Hardware       | Qualcomm | Sd 625          | - | All | All | All |
| Hardware       | Qualcomm | Sd 625          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 625 Firmware | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 625 Firmware | - | All | All | All |
| Hardware       | Qualcomm | Sd 632          | - | All | All | All |
| Hardware       | Qualcomm | Sd 632          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 632 Firmware | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 632 Firmware | - | All | All | All |
| Hardware   | Qualcomm | Sd 636          | - | All | All | All |
| Hardware   | Qualcomm | Sd 636          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 636 Firmware | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 636 Firmware | - | All | All | All |
| Hardware   | Qualcomm | Sd 665          | - | All | All | All |
| Hardware   | Qualcomm | Sd 665          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 665 Firmware | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 665 Firmware | - | All | All | All |
| Hardware   | Qualcomm | Sd 670          | - | All | All | All |
| Hardware   | Qualcomm | Sd 670          | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 670 Firmware | - | All | All | All |
| Operating System                                                                                                                                                                 | Qualcomm | Sd 670 Firmware | - | All | All | All |
| Hardware   | Qualcomm | Sd 675          | - | All | All | All |
| Hardware   | Qualcomm | Sd 675          | - | All | All | All |

|                                                                                              |          |                  |   |     |     |     |
|----------------------------------------------------------------------------------------------|----------|------------------|---|-----|-----|-----|
| Operating System                                                                             | Qualcomm | Sd 675 Firmware  | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sd 675 Firmware  | - | All | All | All |
| Hardware    | Qualcomm | Sd 710           | - | All | All | All |
| Hardware    | Qualcomm | Sd 710           | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sd 710 Firmware  | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sd 710 Firmware  | - | All | All | All |
| Hardware    | Qualcomm | Sd 712           | - | All | All | All |
| Hardware    | Qualcomm | Sd 712           | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sd 712 Firmware  | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sd 712 Firmware  | - | All | All | All |
| Hardware    | Qualcomm | Sd 730           | - | All | All | All |
| Hardware    | Qualcomm | Sd 730           | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sd 730 Firmware  | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sd 730 Firmware  | - | All | All | All |
| Hardware  | Qualcomm | Sd 820           | - | All | All | All |
| Hardware  | Qualcomm | Sd 820           | - | All | All | All |
| Hardware  | Qualcomm | Sd 820a          | - | All | All | All |
| Hardware  | Qualcomm | Sd 820a          | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sd 820a Firmware | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sd 820a Firmware | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sd 820 Firmware  | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sd 820 Firmware  | - | All | All | All |
| Hardware  | Qualcomm | Sd 835           | - | All | All | All |
| Hardware  | Qualcomm | Sd 835           | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sd 835 Firmware  | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sd 835 Firmware  | - | All | All | All |
| Hardware  | Qualcomm | Sd 845           | - | All | All | All |

|                                             |          |                 |   |     |     |     |
|---------------------------------------------|----------|-----------------|---|-----|-----|-----|
| Hardware                                    |          | Sd 845          | - | All | All | All |
| Hardware                                    |          | Sd 845          | - | All | All | All |
| Operating System                            | Qualcomm | Sd 845 Firmware | - | All | All | All |
| Operating System                            | Qualcomm | Sd 845 Firmware | - | All | All | All |
| Hardware                                    |          | Sd 850          | - | All | All | All |
| Hardware                                    |          | Sd 850          | - | All | All | All |
| Operating System                            | Qualcomm | Sd 850 Firmware | - | All | All | All |
| Operating System                            | Qualcomm | Sd 850 Firmware | - | All | All | All |
| Hardware                                    |          | Sd 855          | - | All | All | All |
| Hardware                                    |          | Sd 855          | - | All | All | All |
| Operating System                            | Qualcomm | Sd 855 Firmware | - | All | All | All |
| Operating System                            | Qualcomm | Sd 855 Firmware | - | All | All | All |
| cpe:2.3:h:qualcomm:mdm9150:-:~::~:          |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:mdm9150:-:~::~:          |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:mdm9150_firmware:-:~::~: |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:mdm9150_firmware:-:~::~: |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:mdm9206:-:~::~:          |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:mdm9206:-:~::~:          |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:mdm9206_firmware:-:~::~: |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:mdm9206_firmware:-:~::~: |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:mdm9607:-:~::~:          |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:mdm9607:-:~::~:          |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:mdm9607_firmware:-:~::~: |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:mdm9607_firmware:-:~::~: |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:mdm9615:-:~::~:          |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:mdm9615:-:~::~:          |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:mdm9615_firmware:-:~::~: |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:mdm9615_firmware:-:~::~: |          |                 |   |     |     |     |

cpe:2.3:h:qualcomm:mdm9640:-:\*:\*:\*:\*:\*:\*:

cpe:2.3:h:qualcomm:mdm9640:-:\*:\*:\*:\*:\*:\*:

```
cpe:2.3:o:qualcomm:mdm9640_firmware:-:*:*:*:*:*.*
```

```
cpe:2.3:o:qualcomm:mdm9640_firmware:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:mdm9650:-:\*:\*:\*:\*:\*:\*:

cpe:2.3:h:qualcomm:mdm9650:-:\*:\*:\*:\*:\*:\*:

```
cpe:2.3:o:qualcomm:mdm9650_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:mdm9650_firmware:-:*:*:*:*:*
```

cpe:2.3:h:qualcomm:msm8909w:-:\*:\*:\*:\*:\*:\*:

cpe:2.3:h:qualcomm:msm8909w:-:\*:\*:\*:\*:\*:

```
cpe:2.3:o:qualcomm:msm8909w_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:msm8909w_firmware:-:*:*:*:*:*.*
```

cpe:2.3:h:qualcomm:msm8996au:-:\*:\*:\*:\*:\*:

cpe:2.3:h:qualcomm:msm8996au:-:\*:\*:\*:\*:\*:

```
cpe:2.3:o:qualcomm:msm8996au_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:msm8996au_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:gcs405:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:qcs405:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:qcs405_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:qcs405_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:qcs605:-:\*:\*:\*:\*:\*:\*:

cpe:2.3:h:qualcomm:qcs605:-:\*:\*:\*:\*:\*:\*:

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cpe:2.3:o:qualcomm:qcs605_firmware:-:*:*:*:*:*:*
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cpe:2.3:o:qualcomm:qcs605_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:qualcomm_215:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:qualcomm_215:-:*~*~*~*~*~*
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cpe:2.3:o:qualcomm:qualcomm_215_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:qualcomm_215_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sda660:-:\*:\*:\*:\*:\*:\*:

cpe:2.3:h:qualcomm:sda660:-:\*:\*:\*:\*:\*:\*:

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cpe:2.3:o:qualcomm:sda660_firmware:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sda660_firmware:-:*:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sdm439:-:\*:\*:\*:\*:\*:\*:

cpe:2.3:h:qualcomm:sdm439:-:\*:\*:\*:\*:\*:\*:

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cpe:2.3:o:qualcomm:sdm439_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sdm439_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sdm630:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sdm630:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sdm630_firmware:-:*:*:*:*:*:*
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cpe:2.3:o:qualcomm:sdm630_firmware:-:*:*:*:*:*.*
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cpe:2.3:h:qualcomm:sdm660:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sdm660:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sdm660_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sdm660_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sdx20:-:\*:\*:\*:\*:\*:\*:

cpe:2.3:h:qualcomm:sdx20:-:\*:\*:\*:\*:\*:\*:

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cpe:2.3:o:qualcomm:sdx20_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sdx20\_firmware:-:\*:\*:\*:\*:\*:

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cpe:2.3:h:qualcomm:sdx24:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sdx24:-:\*:\*:\*:\*:\*:\*:

cpe:2.3:o:qualcomm:sdx24\_firmware:-:\*:\*:\*:\*:\*:\*

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cpe:2.3:o:qualcomm:sdx24_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd 205:-:\*:\*:\*:\*:\*:\*:

cpe:2.3:h:qualcomm:sd\_205:-:\*:\*:\*:\*:\*:

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cpe:2.3:o:qualcomm:sd_205_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sd_205_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd_210:-:*:*:*:*:*:*:
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| cpe:2.3:h:qualcomm:sd_210:-:~::~~::~~::~~::~~::~~::~~:::          |
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| cpe:2.3:o:qualcomm:sd_210_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
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| cpe:2.3:o:qualcomm:sd_210_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
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| cpe:2.3:h:qualcomm:sd_212:-:~::~~::~~::~~::~~::~~::~~:::          |
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| cpe:2.3:h:qualcomm:sd_212:-:~::~~::~~::~~::~~::~~::~~:::          |
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| cpe:2.3:o:qualcomm:sd_212_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
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| cpe:2.3:o:qualcomm:sd_212_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
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| cpe:2.3:h:qualcomm:sd_415:-:~::~~::~~::~~::~~::~~::~~:::          |
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| cpe:2.3:h:qualcomm:sd_415:-:~::~~::~~::~~::~~::~~::~~:::          |
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| cpe:2.3:o:qualcomm:sd_415_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
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| cpe:2.3:o:qualcomm:sd_415_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
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| cpe:2.3:h:qualcomm:sd_425:-:~::~~::~~::~~::~~::~~::~~:::          |
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| cpe:2.3:h:qualcomm:sd_425:-:~::~~::~~::~~::~~::~~::~~:::          |
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| cpe:2.3:o:qualcomm:sd_425_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
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| cpe:2.3:o:qualcomm:sd_425_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
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| cpe:2.3:h:qualcomm:sd_427:-:~::~~::~~::~~::~~::~~::~~:::          |
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| cpe:2.3:h:qualcomm:sd_427:-:~::~~::~~::~~::~~::~~::~~:::          |
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| cpe:2.3:o:qualcomm:sd_427_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
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| cpe:2.3:o:qualcomm:sd_427_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
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| cpe:2.3:h:qualcomm:sd_429:-:~::~~::~~::~~::~~::~~::~~:::          |
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| cpe:2.3:h:qualcomm:sd_429:-:~::~~::~~::~~::~~::~~::~~:::          |
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| cpe:2.3:o:qualcomm:sd_429_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
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| cpe:2.3:o:qualcomm:sd_429_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
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| cpe:2.3:h:qualcomm:sd_430:-:~::~~::~~::~~::~~::~~::~~:::          |
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| cpe:2.3:h:qualcomm:sd_430:-:~::~~::~~::~~::~~::~~::~~:::          |
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| cpe:2.3:o:qualcomm:sd_430_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
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| cpe:2.3:o:qualcomm:sd_430_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
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| cpe:2.3:h:qualcomm:sd_435:-:~::~~::~~::~~::~~::~~::~~:::          |
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| cpe:2.3:h:qualcomm:sd_435:-:~::~~::~~::~~::~~::~~::~~:::          |
| cpe:2.3:o:qualcomm:sd_435_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
| cpe:2.3:o:qualcomm:sd_435_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
| cpe:2.3:h:qualcomm:sd_439:-:~::~~::~~::~~::~~::~~::~~:::          |
| cpe:2.3:h:qualcomm:sd_439:-:~::~~::~~::~~::~~::~~::~~:::          |
| cpe:2.3:o:qualcomm:sd_439_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
| cpe:2.3:o:qualcomm:sd_439_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
| cpe:2.3:h:qualcomm:sd_450:-:~::~~::~~::~~::~~::~~::~~:::          |
| cpe:2.3:h:qualcomm:sd_450:-:~::~~::~~::~~::~~::~~::~~:::          |
| cpe:2.3:o:qualcomm:sd_450_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
| cpe:2.3:o:qualcomm:sd_450_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
| cpe:2.3:h:qualcomm:sd_600:-:~::~~::~~::~~::~~::~~::~~:::          |
| cpe:2.3:h:qualcomm:sd_600:-:~::~~::~~::~~::~~::~~::~~:::          |
| cpe:2.3:o:qualcomm:sd_600_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
| cpe:2.3:o:qualcomm:sd_600_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
| cpe:2.3:h:qualcomm:sd_615:-:~::~~::~~::~~::~~::~~::~~:::          |
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| cpe:2.3:o:qualcomm:sd_615_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
| cpe:2.3:h:qualcomm:sd_616:-:~::~~::~~::~~::~~::~~::~~:::          |
| cpe:2.3:h:qualcomm:sd_616:-:~::~~::~~::~~::~~::~~::~~:::          |
| cpe:2.3:o:qualcomm:sd_616_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
| cpe:2.3:o:qualcomm:sd_616_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
| cpe:2.3:h:qualcomm:sd_625:-:~::~~::~~::~~::~~::~~::~~:::          |
| cpe:2.3:h:qualcomm:sd_625:-:~::~~::~~::~~::~~::~~::~~:::          |
| cpe:2.3:o:qualcomm:sd_625_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
| cpe:2.3:o:qualcomm:sd_625_firmware:-:~::~~::~~::~~::~~::~~::~~::: |
| cpe:2.3:h:qualcomm:sd_632:-:~::~~::~~::~~::~~::~~::~~:::          |
| cpe:2.3:h:qualcomm:sd_632:-:~::~~::~~::~~::~~::~~::~~:::          |

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cpe:2.3:o:qualcomm:sd_632_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sd_632_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd_636:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd_636:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sd_636_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sd_636_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd_665:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd_665:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sd_665_firmware:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sd_665_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd_670:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd_670:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sd_670_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sd_670_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd_675:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd_675:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sd_675_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sd_675_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd_710:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd_710:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sd_710_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sd_710_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd_712:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd\_712:-:\*:\*:\*:\*:\*:

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cpe:2.3:o:qualcomm:sd_712_firmware:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sd_712_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd_730:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sd_730:-:*:*:*:*:*:*:
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| cpe:2.3:o:qualcomm:sd_730_firmware:-:*****:  |
| cpe:2.3:o:qualcomm:sd_730_firmware:-:*****:  |
| cpe:2.3:h:qualcomm:sd_820:-:*****:           |
| cpe:2.3:h:qualcomm:sd_820:-:*****:           |
| cpe:2.3:h:qualcomm:sd_820a:-:*****:          |
| cpe:2.3:h:qualcomm:sd_820a:-:*****:          |
| cpe:2.3:o:qualcomm:sd_820a_firmware:-:*****: |
| cpe:2.3:o:qualcomm:sd_820a_firmware:-:*****: |
| cpe:2.3:o:qualcomm:sd_820_firmware:-:*****:  |
| cpe:2.3:o:qualcomm:sd_820_firmware:-:*****:  |
| cpe:2.3:h:qualcomm:sd_835:-:*****:           |
| cpe:2.3:h:qualcomm:sd_835:-:*****:           |
| cpe:2.3:o:qualcomm:sd_835_firmware:-:*****:  |
| cpe:2.3:o:qualcomm:sd_835_firmware:-:*****:  |
| cpe:2.3:h:qualcomm:sd_845:-:*****:           |
| cpe:2.3:h:qualcomm:sd_845:-:*****:           |
| cpe:2.3:o:qualcomm:sd_845_firmware:-:*****:  |
| cpe:2.3:o:qualcomm:sd_845_firmware:-:*****:  |
| cpe:2.3:h:qualcomm:sd_850:-:*****:           |
| cpe:2.3:h:qualcomm:sd_850:-:*****:           |
| cpe:2.3:o:qualcomm:sd_850_firmware:-:*****:  |
| cpe:2.3:o:qualcomm:sd_850_firmware:-:*****:  |
| cpe:2.3:h:qualcomm:sd_855:-:*****:           |
| cpe:2.3:h:qualcomm:sd_855:-:*****:           |
| cpe:2.3:o:qualcomm:sd_855_firmware:-:*****:  |
| cpe:2.3:o:qualcomm:sd_855_firmware:-:*****:  |

No vendor comments have been submitted for this CVE

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