

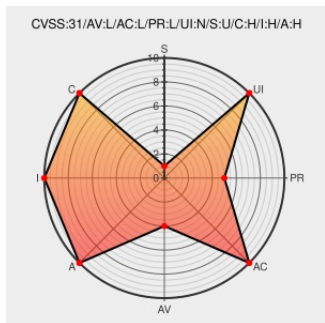


CVE-2019-13998

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CVE-2019-13998

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

Certain versions of [Apq8009](#) from [Qualcomm](#) contain the following vulnerability:

u'Lack of check that the TX FIFO write and read indices that are read from shared RAM are less than the FIFO size results into memory corruption and potential information leakage' in Snapdragon Auto, Snapdragon Compute, Snapdragon Connectivity, Snapdragon Consumer Electronics Connectivity, Snapdragon Consumer IOT,

Snapdragon Industrial IOT, Snapdragon Mobile, Snapdragon Voice & Music, Snapdragon Wearables, Snapdragon Wired Infrastructure and Networking in APQ8009, APQ8017, APQ8053, APQ8096AU, APQ8098, Bitra, IPQ6018, IPQ8074, Kamorta, MDM9150, MDM9205, MDM9206, MDM9607, MDM9640, MDM9645, MDM9650, MDM9655, MSM8905, MSM8909, MSM8917, MSM8920, MSM8937, MSM8940, MSM8953, MSM8996, MSM8996AU, MSM8998, Nicobar, QCA8081, QCM2150, QCN7605, QCS404, QCS405, QCS605, QCS610, QM215, Rennell, SA415M, SA515M, SA6155P, Saipan, SC7180, SC8180X, SDA660, SDA845, SDM429, SDM429W, SDM439, SDM450, SDM630, SDM632, SDM636, SDM660, SDM670, SDM710, SDM845, SDM850, SDX20, SDX24, SDX55, SM6150, SM7150, SM8150, SM8250, SXR1130, SXR2130

CVE-2019-13998 has been assigned by [Q](#) product-security@qualcomm.com to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: [Q](#) Qualcomm, Inc. - Snapdragon Auto, Snapdragon Compute, Snapdragon Connectivity, Snapdragon Consumer Electronics Connectivity, Snapdragon Consumer IOT, Snapdragon Industrial IOT, Snapdragon Mobile, Snapdragon Voice & Music, Snapdragon Wearables, Snapdragon Wired Infrastructure and Networking version APQ8009, APQ8017, APQ8053, APQ8096AU, APQ8098, Bitra, IPQ6018, IPQ8074, Kamorta, MDM9150, MDM9205, MDM9206, MDM9607, MDM9640, MDM9645, MDM9650, MDM9655, MSM8905, MSM8909, MSM8917, MSM8920, MSM8937, MSM8940, MSM8953, MSM8996, MSM8996AU, MSM8998, Nicobar, QCA8081, QCM2150, QCN7605, QCS404, QCS405, QCS605, QCS610, QM215, Rennell, SA415M, SA515M, SA6155P, Saipan, SC7180, SC8180X, SDA660, SDA845, SDM429, SDM429W, SDM439, SDM450, SDM630, SDM632, SDM636, SDM660, SDM670, SDM710, SDM845, SDM850, SDX20, SDX24, SDX55, SM6150, SM7150, SM8150, SM8250, SXR1130, SXR2130

CVSS3 Score: **7.8 - HIGH**

Attack
Vector

Attack
Complexity

Privileges
Required

User
Interaction

LOCAL	LOW	LOW	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	HIGH	HIGH	HIGH
CVSS2 Score: 7.2 - HIGH			
Access Vector	Access Complexity	Authentication	
LOCAL	LOW	NONE	
Confidentiality Impact	Integrity Impact	Availability Impact	
COMPLETE	COMPLETE	COMPLETE	

CVE References		
Description	Tags	Link
August 2020 Bulletin	Vendor Advisory www.qualcomm.com text/html	Q MISC www.qualcomm.com/company/product-security/bulletins/august-2020-security-bulletin
August 2020 Security Bulletin Qualcomm	Broken Link www.qualcomm.com text/html	Q CONFIRM www.qualcomm.com/company/product-security/bulletins/august-2020-bulletin

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware 	Qualcomm	Apq8009	-	All	All	All
Hardware 	Qualcomm	Apq8009	-	All	All	All
Operating System	Qualcomm	Apq8009 Firmware	-	All	All	All
Operating System	Qualcomm	Apq8009 Firmware	-	All	All	All
Hardware 	Qualcomm	Apq8017	-	All	All	All
Hardware 	Qualcomm	Apq8017	-	All	All	All
Operating System	Qualcomm	Apq8017 Firmware	-	All	All	All
Operating System	Qualcomm	Apq8017 Firmware	-	All	All	All
Hardware 	Qualcomm	Apq8053	-	All	All	All

Hardware  	Qualcomm	Apq8053	-	All	All	All
Hardware  	Qualcomm	Apq8053	-	All	All	All
Operating System	Qualcomm	Apq8053 Firmware	-	All	All	All
Operating System	Qualcomm	Apq8053 Firmware	-	All	All	All
Hardware  	Qualcomm	Apq8096au	-	All	All	All
Hardware  	Qualcomm	Apq8096au	-	All	All	All
Operating System	Qualcomm	Apq8096au Firmware	-	All	All	All
Operating System	Qualcomm	Apq8096au Firmware	-	All	All	All
Hardware  	Qualcomm	Apq8098	-	All	All	All
Hardware  	Qualcomm	Apq8098	-	All	All	All
Operating System	Qualcomm	Apq8098 Firmware	-	All	All	All
Operating System	Qualcomm	Apq8098 Firmware	-	All	All	All
Hardware  	Qualcomm	Bitra	-	All	All	All
Hardware  	Qualcomm	Bitra	-	All	All	All
Operating System	Qualcomm	Bitra Firmware	-	All	All	All
Operating System	Qualcomm	Bitra Firmware	-	All	All	All
Hardware  	Qualcomm	Ipq6018	-	All	All	All
Hardware  	Qualcomm	Ipq6018	-	All	All	All
Operating System	Qualcomm	Ipq6018 Firmware	-	All	All	All
Operating System	Qualcomm	Ipq6018 Firmware	-	All	All	All
Hardware  	Qualcomm	Ipq8074	-	All	All	All
Hardware  	Qualcomm	Ipq8074	-	All	All	All
Operating System	Qualcomm	Ipq8074 Firmware	-	All	All	All
Operating System	Qualcomm	Ipq8074 Firmware	-	All	All	All
Hardware  	Qualcomm	Kamorta	-	All	All	All
Hardware  	Qualcomm	Kamorta	-	All	All	All
Operating System	Qualcomm	Kamorta Firmware	-	All	All	All

Operating System	Qualcomm	Kamorta Firmware	-	All	All	All
Hardware  	Qualcomm	Mdm9150	-	All	All	All
Hardware  	Qualcomm	Mdm9150	-	All	All	All
Operating System	Qualcomm	Mdm9150 Firmware	-	All	All	All
Operating System	Qualcomm	Mdm9150 Firmware	-	All	All	All
Hardware  	Qualcomm	Mdm9205	-	All	All	All
Hardware  	Qualcomm	Mdm9205	-	All	All	All
Operating System	Qualcomm	Mdm9205 Firmware	-	All	All	All
Operating System	Qualcomm	Mdm9205 Firmware	-	All	All	All
Hardware  	Qualcomm	Mdm9206	-	All	All	All
Hardware  	Qualcomm	Mdm9206	-	All	All	All
Operating System	Qualcomm	Mdm9206 Firmware	-	All	All	All
Operating System	Qualcomm	Mdm9206 Firmware	-	All	All	All
Hardware  	Qualcomm	Mdm9607	-	All	All	All
Hardware  	Qualcomm	Mdm9607	-	All	All	All
Operating System	Qualcomm	Mdm9607 Firmware	-	All	All	All
Operating System	Qualcomm	Mdm9607 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	Mdm9645	-	All	All	All
Hardware  	Qualcomm	Mdm9645	-	All	All	All
Operating System	Qualcomm	Mdm9645 Firmware	-	All	All	All
Operating System	Qualcomm	Mdm9645 Firmware	-	All	All	All
Hardware  	Qualcomm	Mdm9650	-	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	Mdm9655	-	All	All	All
Hardware 	Qualcomm	Mdm9655	-	All	All	All
Operating System	Qualcomm	Mdm9655 Firmware	-	All	All	All
Operating System	Qualcomm	Mdm9655 Firmware	-	All	All	All
Hardware 	Qualcomm	Msm8905	-	All	All	All
Hardware 	Qualcomm	Msm8905	-	All	All	All
Operating System	Qualcomm	Msm8905 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8905 Firmware	-	All	All	All
Hardware 	Qualcomm	Msm8909	-	All	All	All
Hardware 	Qualcomm	Msm8909	-	All	All	All
Operating System	Qualcomm	Msm8909 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8909 Firmware	-	All	All	All
Hardware 	Qualcomm	Msm8917	-	All	All	All
Hardware 	Qualcomm	Msm8917	-	All	All	All
Operating System	Qualcomm	Msm8917 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8917 Firmware	-	All	All	All
Hardware 	Qualcomm	Msm8920	-	All	All	All
Hardware 	Qualcomm	Msm8920	-	All	All	All
Operating System	Qualcomm	Msm8920 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8920 Firmware	-	All	All	All
Hardware 	Qualcomm	Msm8937	-	All	All	All
Hardware 	Qualcomm	Msm8937	-	All	All	All
Operating System	Qualcomm	Msm8937 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8937 Firmware	-	All	All	All

System						
Hardware  	Qualcomm	Msm8940	-	All	All	All
Hardware  	Qualcomm	Msm8940	-	All	All	All
Operating System	Qualcomm	Msm8940 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8940 Firmware	-	All	All	All
Hardware  	Qualcomm	Msm8953	-	All	All	All
Hardware  	Qualcomm	Msm8953	-	All	All	All
Operating System	Qualcomm	Msm8953 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8953 Firmware	-	All	All	All
Hardware  	Qualcomm	Msm8996	-	All	All	All
Hardware  	Qualcomm	Msm8996	-	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
Operating System	Qualcomm	Msm8996 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8996 Firmware	-	All	All	All
Hardware  	Qualcomm	Msm8998	-	All	All	All
Hardware  	Qualcomm	Msm8998	-	All	All	All
Operating System	Qualcomm	Msm8998 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8998 Firmware	-	All	All	All
Hardware  	Qualcomm	Nicobar	-	All	All	All
Hardware  	Qualcomm	Nicobar	-	All	All	All
Operating System	Qualcomm	Nicobar Firmware	-	All	All	All
Operating System	Qualcomm	Nicobar Firmware	-	All	All	All
Hardware  	Qualcomm	Qca8081	-	All	All	All
Hardware  	Qualcomm	Qca8081	-	All	All	All
Operating System	Qualcomm	Qca8081 Firmware	-	All	All	All

Operating System	Qualcomm	Qualcomm Firmware	-	All	All	All
Operating System	Qualcomm	Qca8081 Firmware	-	All	All	All
Hardware  	Qualcomm	Qcm2150	-	All	All	All
Hardware  	Qualcomm	Qcm2150	-	All	All	All
Operating System	Qualcomm	Qcm2150 Firmware	-	All	All	All
Operating System	Qualcomm	Qcm2150 Firmware	-	All	All	All
Hardware  	Qualcomm	Qcn7605	-	All	All	All
Hardware  	Qualcomm	Qcn7605	-	All	All	All
Operating System	Qualcomm	Qcn7605 Firmware	-	All	All	All
Operating System	Qualcomm	Qcn7605 Firmware	-	All	All	All
Hardware  	Qualcomm	Qcs404	-	All	All	All
Hardware  	Qualcomm	Qcs404	-	All	All	All
Operating System	Qualcomm	Qcs404 Firmware	-	All	All	All
Operating System	Qualcomm	Qcs404 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	Qcs610	-	All	All	All
Hardware  	Qualcomm	Qcs610	-	All	All	All
Operating System	Qualcomm	Qcs610 Firmware	-	All	All	All
Operating System	Qualcomm	Qcs610 Firmware	-	All	All	All
Hardware  	Qualcomm	Qm215	-	All	All	All

						
Hardware  	Qualcomm	Qm215	-	All	All	All
Operating System	Qualcomm	Qm215 Firmware	-	All	All	All
Operating System	Qualcomm	Qm215 Firmware	-	All	All	All
Hardware  	Qualcomm	Rennell	-	All	All	All
Hardware  	Qualcomm	Rennell	-	All	All	All
Operating System	Qualcomm	Rennell Firmware	-	All	All	All
Operating System	Qualcomm	Rennell Firmware	-	All	All	All
Hardware  	Qualcomm	Sa415m	-	All	All	All
Hardware  	Qualcomm	Sa415m	-	All	All	All
Operating System	Qualcomm	Sa415m Firmware	-	All	All	All
Operating System	Qualcomm	Sa415m Firmware	-	All	All	All
Hardware  	Qualcomm	Sa6155p	-	All	All	All
Hardware  	Qualcomm	Sa6155p	-	All	All	All
Operating System	Qualcomm	Sa6155p Firmware	-	All	All	All
Operating System	Qualcomm	Sa6155p Firmware	-	All	All	All
Hardware  	Qualcomm	Saipan	-	All	All	All
Hardware  	Qualcomm	Saipan	-	All	All	All
Operating System	Qualcomm	Saipan Firmware	-	All	All	All
Operating System	Qualcomm	Saipan Firmware	-	All	All	All
Hardware  	Qualcomm	Sc7180	-	All	All	All
Hardware  	Qualcomm	Sc7180	-	All	All	All
Operating System	Qualcomm	Sc7180 Firmware	-	All	All	All
Operating System	Qualcomm	Sc7180 Firmware	-	All	All	All
Hardware  	Qualcomm	Sc8180x	-	All	All	All
Hardware  	Qualcomm	Sc8180x	-	All	All	All
Operating System	Qualcomm	Sc8180x Firmware	-	All	All	All

Operating System	Qualcomm	Sc8180x 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	Sda845	-	All	All	All
Hardware  	Qualcomm	Sda845	-	All	All	All
Operating System	Qualcomm	Sda845 Firmware	-	All	All	All
Operating System	Qualcomm	Sda845 Firmware	-	All	All	All
Hardware  	Qualcomm	Sdm429	-	All	All	All
Hardware  	Qualcomm	Sdm429	-	All	All	All
Hardware  	Qualcomm	Sdm429w	-	All	All	All
Hardware  	Qualcomm	Sdm429w	-	All	All	All
Operating System	Qualcomm	Sdm429w Firmware	-	All	All	All
Operating System	Qualcomm	Sdm429w Firmware	-	All	All	All
Operating System	Qualcomm	Sdm429 Firmware	-	All	All	All
Operating System	Qualcomm	Sdm429 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	Sdm450	-	All	All	All
Hardware  	Qualcomm	Sdm450	-	All	All	All
Operating System	Qualcomm	Sdm450 Firmware	-	All	All	All
Operating System	Qualcomm	Sdm450 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	Sdm632	-	All	All	All
Hardware  	Qualcomm	Sdm632	-	All	All	All
Operating System	Qualcomm	Sdm632 Firmware	-	All	All	All
Operating System	Qualcomm	Sdm632 Firmware	-	All	All	All
Hardware  	Qualcomm	Sdm636	-	All	All	All
Hardware  	Qualcomm	Sdm636	-	All	All	All
Operating System	Qualcomm	Sdm636 Firmware	-	All	All	All
Operating System	Qualcomm	Sdm636 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	Sdm670	-	All	All	All
Hardware  	Qualcomm	Sdm670	-	All	All	All
Operating System	Qualcomm	Sdm670 Firmware	-	All	All	All
Operating System	Qualcomm	Sdm670 Firmware	-	All	All	All
Hardware  	Qualcomm	Sdm710	-	All	All	All
Hardware  	Qualcomm	Sdm710	-	All	All	All
Operating System	Qualcomm	Sdm710 Firmware	-	All	All	All
Operating System	Qualcomm	Sdm710 Firmware	-	All	All	All
Hardware  	Qualcomm	Sdm845	-	All	All	All
Hardware  	Qualcomm	Sdm845	-	All	All	All
Operating System	Qualcomm	Sdm845 Firmware	-	All	All	All
Operating System	Qualcomm	Sdm845 Firmware	-	All	All	All

Hardware  	Qualcomm	Sdm850	-	All	All	All
Hardware  	Qualcomm	Sdm850	-	All	All	All
Operating System	Qualcomm	Sdm850 Firmware	-	All	All	All
Operating System	Qualcomm	Sdm850 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	Sdx55	-	All	All	All
Hardware  	Qualcomm	Sdx55	-	All	All	All
Operating System	Qualcomm	Sdx55 Firmware	-	All	All	All
Operating System	Qualcomm	Sdx55 Firmware	-	All	All	All
Hardware  	Qualcomm	Sm6150	-	All	All	All
Hardware  	Qualcomm	Sm6150	-	All	All	All
Operating System	Qualcomm	Sm6150 Firmware	-	All	All	All
Operating System	Qualcomm	Sm6150 Firmware	-	All	All	All
Hardware  	Qualcomm	Sm7150	-	All	All	All
Hardware  	Qualcomm	Sm7150	-	All	All	All
Operating System	Qualcomm	Sm7150 Firmware	-	All	All	All
Operating System	Qualcomm	Sm7150 Firmware	-	All	All	All
Hardware  	Qualcomm	Sm8150	-	All	All	All
Hardware  	Qualcomm	Sm8150	-	All	All	All
Operating	Qualcomm	Sm8150 Firmware	-	All	All	All

System						
Operating System	Qualcomm	Sm8150 Firmware	-	All	All	All
Hardware	Qualcomm	Sm8250	-	All	All	All
Hardware	Qualcomm	Sm8250	-	All	All	All
Operating System	Qualcomm	Sm8250 Firmware	-	All	All	All
Operating System	Qualcomm	Sm8250 Firmware	-	All	All	All
Hardware	Qualcomm	Sxr1130	-	All	All	All
Hardware	Qualcomm	Sxr1130	-	All	All	All
Operating System	Qualcomm	Sxr1130 Firmware	-	All	All	All
Operating System	Qualcomm	Sxr1130 Firmware	-	All	All	All
Hardware	Qualcomm	Sxr2130	-	All	All	All
Hardware	Qualcomm	Sxr2130	-	All	All	All
Operating System	Qualcomm	Sxr2130 Firmware	-	All	All	All
Operating System	Qualcomm	Sxr2130 Firmware	-	All	All	All
cpe:2.3:h:qualcomm:apq8009:-:~::~~::~~::~~::~~::~~:::						
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cpe:2.3:o:qualcomm:apq8009_firmware:-:~::~~::~~::~~::~~::~~:::						
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cpe:2.3:o:qualcomm:apq8098_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:bitra:-:*:*:*:*:*:
cpe:2.3:h:qualcomm:bitra:-:*:*:*:*:*:
cpe:2.3:o:qualcomm:bitra_firmware:-:*:*:*:*:*:
cpe:2.3:o:qualcomm:bitra_firmware:-:*:*:*:*:*:
cpe:2.3:h:qualcomm:ipq6018:-:*:*:*:*:*:
cpe:2.3:h:qualcomm:ipq6018:-:*:*:*:*:*:
cpe:2.3:o:qualcomm:ipq6018_firmware:-:*:*:*:*:*:
cpe:2.3:o:qualcomm:ipq6018_firmware:-:*:*:*:*:*:
cpe:2.3:h:qualcomm:ipq8074:-:*:*:*:*:*:
cpe:2.3:h:qualcomm:ipq8074:-:*:*:*:*:*:
cpe:2.3:o:qualcomm:ipq8074_firmware:-:*:*:*:*:*:
cpe:2.3:o:qualcomm:ipq8074_firmware:-:*:*:*:*:*:
cpe:2.3:h:qualcomm:kamorta:-:*:*:*:*:*:
cpe:2.3:h:qualcomm:kamorta:-:*:*:*:*:*:
cpe:2.3:o:qualcomm:kamorta_firmware:-:*:*:*:*:*:
cpe:2.3:o:qualcomm:kamorta_firmware:-:*:*:*:*:*:
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:mdm9205:-:*:*:*:*:*:
cpe:2.3:h:qualcomm:mdm9205:-:*:*:*:*:*:

cpe:2.3:o:qualcomm:mdm9205_firmware:-:*****:
cpe:2.3:o:qualcomm:mdm9205_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: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:mdm9645:-:*****:
cpe:2.3:h:qualcomm:mdm9645:-:*****:
cpe:2.3:o:qualcomm:mdm9645_firmware:-:*****:
cpe:2.3:o:qualcomm:mdm9645_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:mdm9655:-:*****:
cpe:2.3:h:qualcomm:mdm9655:-:*****:
cpe:2.3:o:qualcomm:mdm9655_firmware:-:*****:
cpe:2.3:o:qualcomm:mdm9655_firmware:-:*****:
cpe:2.3:h:qualcomm:msm8905:-:*****:
cpe:2.3:h:qualcomm:msm8905:-:*****:
cpe:2.3:h:qualcomm:msm8905:-:*****:

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cpe:2.3:0:qualcomm:msm8905_firmware:-:::~::~
```

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cpe:2.3:o:qualcomm:msm8905_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8909:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:msm8909_firmware:-:*:*:*:*:*.*
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cpe:2.3:o:qualcomm:msm8917_firmware:-:*:*:*:*:*:
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```
cpe:2.3:o:qualcomm:msm8917_firmware:-:*:*:*:*:*:
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```
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cpe:2.3:h:qualcomm:msm8937:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:msm8937_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8940:-:*:*:*:*:*:*:

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cpe:2.3:h:qualcomm:msm8940:-:*:*:*:*:*:
```

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cpe:2.3:o:qualcomm:msm8940_firmware:-.*:.*:.*:.*:.*:.*
```

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cpe:2.3:o:qualcomm:msm8940_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8953:-:*:*:*:*:*:

cpe:2.3:h:qualcomm:msm8953:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:msm8953_firmware:-:*:*:*:*:*
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```
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cpe:2.3:h:qualcomm:msm8996au:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8996au:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:msm8996au_firmware:-:*:*:*:*:*:
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```
cpe:2.3:o:qualcomm:msm8996_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8998:-:*:*:*:*:*:

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```
cpe:2.3:o:qualcomm:msm8998_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:msm8998_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:nicobar:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:nicobar:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:nicobar_firmware:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:nicobar_firmware:-:*:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:qca8081:-:*:*:*:*:*:*:

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cpe:2.3:h:qualcomm:qca8081:-:*:*:*:*:*:*:
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```
cpe:2.3:o:qualcomm:qca8081_firmware:-:*:*:*:*:*:
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```
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cpe:2.3:h:qualcomm:qcm2150:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:qcm2150_firmware:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:qcm2150_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:qcn7605:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:qcn7605:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:qcn7605_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:qcs404:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:gcs404:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:qcs405_firmware:-:*:*:*:*:*:*:
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```
cpe:2.3:o:qualcomm:qcs605_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:qcs610:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:qcs610:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:qcs610_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:qm215:-:*:*:*:*:*:*:

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cpe:2.3:h:qualcomm:qm215:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:qm215_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:qm215_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:rennell:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:rennell:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:rennell_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:rennell_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sa415m:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:sa415m_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sa6155p:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:sa6155p_firmware:-:*:*:*:*:*.*
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cpe:2.3:o:qualcomm:sa6155p_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:saipan:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:saipan:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:saipan_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:saipan_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sc7180:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sc7180:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sc7180_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sc7180_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sc8180x:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sc8180x:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sc8180x_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sc8180x_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sda660:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sda660:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sda660_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sda660_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sda845:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sda845:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sda845_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sda845_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm429:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm429:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm429w:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm429w:-:~::~~::~~::~~::~~::~~::~~:::
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cpe:2.3:o:qualcomm:sdm429w_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm429_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm429_firmware:-:~::~~::~~::~~::~~::~~::~~:::

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cpe:2.3:h:qualcomm:sdm439:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sdm439_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sdm450:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:sdm450_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sdm450_firmware:-:*:*:*:*:*:
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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:sdm636_firmware:-:*:*:*:*:*:
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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:h:qualcomm:sdm670:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sdm670_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sdm710:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sdm710_firmware:-:*~::~:
cpe:2.3:o:qualcomm:sdm710_firmware:-:*~::~:
cpe:2.3:h:qualcomm:sdm845:-:*~::~:
cpe:2.3:h:qualcomm:sdm845:-:*~::~:
cpe:2.3:o:qualcomm:sdm845_firmware:-:*~::~:
cpe:2.3:o:qualcomm:sdm845_firmware:-:*~::~:
cpe:2.3:h:qualcomm:sdm850:-:*~::~:
cpe:2.3:h:qualcomm:sdm850:-:*~::~:
cpe:2.3:o:qualcomm:sdm850_firmware:-:*~::~:
cpe:2.3:o:qualcomm:sdm850_firmware:-:*~::~:
cpe:2.3:h:qualcomm:sdx20:-:*~::~:
cpe:2.3:h:qualcomm:sdx20:-:*~::~:
cpe:2.3:o:qualcomm:sdx20_firmware:-:*~::~:
cpe:2.3:o:qualcomm:sdx20_firmware:-:*~::~:
cpe:2.3:h:qualcomm:sdx24:-:*~::~:
cpe:2.3:h:qualcomm:sdx24:-:*~::~:
cpe:2.3:o:qualcomm:sdx24_firmware:-:*~::~:
cpe:2.3:o:qualcomm:sdx24_firmware:-:*~::~:
cpe:2.3:h:qualcomm:sdx55:-:*~::~:
cpe:2.3:h:qualcomm:sdx55:-:*~::~:
cpe:2.3:o:qualcomm:sdx55_firmware:-:*~::~:
cpe:2.3:o:qualcomm:sdx55_firmware:-:*~::~:
cpe:2.3:h:qualcomm:sm6150:-:*~::~:
cpe:2.3:h:qualcomm:sm6150:-:*~::~:
cpe:2.3:o:qualcomm:sm6150_firmware:-:*~::~:
cpe:2.3:o:qualcomm:sm6150_firmware:-:*~::~:
cpe:2.3:h:qualcomm:sm7150:-:*~::~:

