# QUALCOMM®

Qualcomm Technologies, Inc.

# MSM8937/MSM8917 Chipset Master Document

80-P2485-550 A

May 5, 2016

# Revision history

| Revision | Date | Description |
|:---:|:---:|:---|
| A | May 2016 | Initial release |

# Contents

# Tables

# 1 Introduction

## 1.1 Purpose

This document provides a comprehensive list of reference documents of each supported feature/technology of the MSM8917/MSM8937 product line. These reference documents can be used to obtain more details for each feature/technology. This document is intended for customers who need to find additional information on features or technologies supported by the MSM89x7 product line.

## 1.2 Conventions

Function declarations, function names, type declarations, and code samples appear in a different font, e.g., `#include`.

Blue shading indicates documents that are specific to MSM89x7.

## 1.3 Technical assistance

For assistance or clarification on information in this document, submit a case to Qualcomm Technologies, Inc. (QTI) at https://createpoint.qti.qualcomm.com/.

If you do not have access to the CDMATech Support website, register for access or send email to support.cdmatech@qti.qualcomm.com.

# 2 Overview

All the documents can be downloaded from https://createpoint.qti.qualcomm.com/. See Appendix A to understand how to download documents from CreatePoint.

This chapter lists the product overview and core documents which are organized by:

- Architecture and feature overview
- Core documents

## 2.1 Certification/carrier architecture and feature overview

**Table 2-1  Architecture and feature overview documents**

| Title | DCN |
|-------|-----|
| MSM8937 Device Specification | 80-P2468-1 |
| MSM8917 Device Specification | 80-P2470-1 |
| MSM8937/MSM8917 Software Architecture Overview | 80-P2485-19 |
| MSM8937/MSM8953 Boot Architecture Overview | 80-P2485-1 |

## 2.2 Core documents

**Table 2-2  Core documents**

| Title | DCN |
|-------|-----|
| MSM89X7 Modem Software Overview | 80-P2485-12 |
| MSM8937/MSM8953 Boot Architecture Overview | 80-P2485-1 |
| MSM8937 PMIC Linux Software Driver Overview | 80-P2485-2 |
| Low-Speed Peripherals Overview | 80-NA157-24 |
| MSM8937 System Power Overview | 80-P2485-4 |
| TZ.BF.4.0 Trustzone Architecture Overview for MSM8937/MSM8953 | 80-P2485-21 |
| MSM8937 Linux Android Thermal Management Overview | 80-P2485-13 |
| MSM8937/MSM8917 Linux Android Audio Overview | 80-P2485-5 |
| MSM8937/MSM8917 Linux Android Video Overview | 80-P2485-9 |
| MSM8937/MSM8917 Linux Android Camera Overview | 80-P2485-6 |
| MSM8917/MSM8937 Linux Android Display Overview | 80-P2485-7 |
| MSM8937/MSM8917 Linux Android Graphics Overview | 80-P2485-8 |
| MSM8937 Android Performance Overview | 80-P2485-11 |
| MSM89X7 RF Software Overview | 80-P2485-3 |
| QCA WCN36X0 Software Architecture | 80-Y0513-1 |

| Title | DCN |
|---|---|
| MSM8937 System Drivers PMIC Overview | 80-P2485-18 |
| MSM8952 Linux Android Charger Software User Guide | 80-NV610-44 |
| MSM8937 Linux Android Software User Manual | SP80-P2485-4 |
| MSM8937 Linux Android Software Porting Manual | SP80-P2485-6 |
| MSM8937 Linux Android Software Debug Manual | SP80-P2485-5 |
| MSM8937 Software Migration Overview | 80-P2485-26 |
| MSM8937 Clock Plan | 80-P2485-20 |
| MSM8937 System Drivers PMIC Overview | 80-P2485-18 |
| MSM8956/MSM8976/MSM8937 RPM Overview and Debug | 80-NU154-10 |
| MSM89X7 RF Bringup User Guide | 80-P2485-14 |
| MSM89X7 RFC Customization | 80-P2485-15 |
| Linux Audio Device Management | 80-NL239-28 |
| System Drivers PMIC API Interface Specification | 80-NV610-42 |
| VREG Clock Software User Guide | 80-NV610-47 |

# 2.3  Certification/carrier

These test results are obtained on modem PL MPSS.JO.1.2.

**Table 2-3  Certification/carrier documents**

| Title | DCN |
|---|---|
| China Telecom Device Configuration and Testing Information -- MPSS.DI.4.0, MPSS.DPM.1.0, MPSS.JO.1.0, and Later; MPSS.BO.1.0 TO MPSS.BO.2.5 | 80-NR766-1 |
| Device Preparation for CT Precertification | 80-P0994-1 |
| Lab Conformance Test Configuration and Execution Guide | 80-P5399-1 |
| China Telecom (CT) Lab Conformance Test Case Results for MPSS.JO.1.2 | 80-P5427-1 |
| Sprint Lab Conformance Test Case Results for MPSS.JO.1.2 | 80-P5427-10 |
| CTA Lab Conformance Test Case Results for MPSS.JO.1.2 | 80-P5427-11 |
| RJIL Lab Conformance Test Case Results for MPSS.JO.1.2 | 80-P5427-12 |
| 2G GCF 3.60 PTCRB 5.26 Test Case Results for MPSS.JO.1.0 | 80-P5427-13 |
| 3G GCF 3.60 PTCRB 5.26 Test Case Results for MPSS.JO.1.2 | 80-P5427-14 |
| LTE GCF 3.60 PTCRB 5.26 Test Case Results for MPSS.JO.1.2 | 80-P5427-15 |
| CMCC Lab Conformance Test Case Results for MPSS.JO.1.2 | 80-P5427-16 |
| Verizon Wireless Lab Conformance Test Case Results for MPSS.JO.1.2 | 80-P5427-17 |
| Modem Field Test Results (VZW PRE DFIT) for MPSS.JO.1.2 | 80-P5427-18 |
| Docomo Lab Conformance Test Case Results for MPSS.JO.1.2 | 80-P5427-2 |
| T-MOBILE Lab Conformance Test Case Results for MPSS.JO.1.2 | 80-P5427-3 |
| AT&T Adapt 10776 V11.6.1 Lab And Field Test Case Results for MPSS.JO.1.2 | 80-P5427-4 |
| AT&T Adapt 10776 V11.5.1 Lab And Field Test Case Results for MPSS.JO.1.2 (PTN) | 80-P5427-5 |
| VZW EVDO SFN Detailed Report Test Results for MPSS.JO.1.2 | 80-P5427-6 |
| VZW 1X SFN Detailed Report Test Results for MPSS.JO.1.2 | 80-P5427-7 |

| Title | DCN |
|---|---|
| VZW LTE SFN SGS Test Results for MPSS.JO.1.2 | 80-P5427-8 |
| MPSS.JO.1.2 GSM/GPRS/EGPRS Protocol Implementation Conformance Statement | 80-P5466-1 |
| MPSS.JO.1.2 3G Protocol Implementation Conformance Statement (PICS) | 80-P5466-2 |
| MPSS.JO.1.2 LTE Protocol Implementation Conformance Statement (PICS) | 80-P5466-3 |
| MPSS.JO.1.2 AGPS and SUPL Protocol Implementation Conformance Statement (PICS) | 80-P5466-4 |
| MPSS.JO.1.2 USAT, USIM, UICC, SWP and HCI Protocol Implementation Conformance Statement (PICS) | 80-P5466-5 |
| MDM9607 MPSS.JO.1.2 REL 1.0 Nokia ENB FL16 B2 B4 B12 B17 CAT1 LTE-FDD IOT Report | 80-P5504-1 |

**MAY CONTAIN U.S. AND INTERNATIONAL EXPORT CONTROLLED INFORMATION**

# 3 Hardware

This chapter lists the hardware-related documents. Hardware documents are organized by chipset.

| DCN | Document title or description |
| --- | --- |
| **MSM8937 documents** | |
| 80-P2468-1 | MSM8937 Device Specification |
| 80-P2468-1A | MSM8937 Pin Assignment Spreadsheet |
| 80-P2468-1B | MSM8937 GPIO Configuration Spreadsheet |
| 80-P2468-2X | MSM8937 Hardware Register Description |
| 80-P2468-3 | MSM8937 Chipset Layout Guidelines |
| 80-P2468-4 | MSM8937 Device Revision Guide |
| 80-P2468-5A | MSM8937 Chipset Introduction Design Guidelines/Training Slides |
| 80-P2468-5B | MSM8937 Digital Baseband Design Guidelines/Training Slides |
| 80-P2468-7 | MSM8937 Linux Android Current Consumption Data |
| 80-P2468-12 | MSM8937 Chipset Thermal Power Projection |
| 80-P2468-41 | MSM8937 + PM8937 + PMI8952/PMI8937 Reference Schematic |
| 80-P2468-42 | MSM8937 + WCD9326 Design Example Schematic |
| 80-P2468-43 | MSM8937 + PM8937 + PMI8952/PMI8937 + SMB1358 Design Example Schematic |
| 80-P2468-111 | MSM8937 + PM8937 + PMI8952/PMI8937 Schematic Review Checklist |
| 80-P2468-112 | MSM8937 + PM8937 + PMI8952/PMI8937 Layout Review Checklist |
| HS11-P2468-1HW | MSM8937 IBIS Model |
| HS11-P2468-1AHW | MSM8937 V5 IBIS Model |
| HS11-P2468-1BHW | MSM8937 CSI IBIS AMI Model |
| HS11-P2468-1CHW | MSM8937 DSI IBIS AMI Model |
| HS11-P2468-1DHW | MSM8937 USB IBIS AMI Model. |
| HS11-P2468-2HW | MSM8937 BSDL File |
| HS11-P2468-5HW | MSM8937 Thermal Package Model ICEPAK |
| HS11-P2468-6HW | MSM8937 Thermal Package Model Flotherm |
| HS11-P2468-13HW | MSM8937 DDR Package Model |
| **MSM8917 documents** | |
| 80-P2470-1 | MSM8917 Device Specification |
| 80-P2470-1A | MSM8917 PIN Assignment Spreadsheet |
| 80-P2470-1B | MSM8917 GPIO Configuration Spreadsheet |
| 80-P2470-2X | MSM8917 Hardware Register Description |
| 80-P2470-3 | MSM8917 Chipset Layout Guidelines |

| DCN | Document title or description |
|---|---|
| 80-P2470-4 | MSM8917 Device Revision Guide |
| 80-P2470-5A | MSM8917 Chipset Introduction Design Guidelines/Training Slides |
| 80-P2470-5B | MSM8917 Digital Baseband Design Guidelines/Training Slides |
| 80-P2470-6 | MSM8937 to MSM8917 Hardware Migration Guide |
| 80-P2470-7 | MSM8917 Linux Android Current Consumption Data |
| 80-P2470-12 | MSM8917 Chipset Thermal Power Projection |
| 80-P2470-41 | MSM8917 + PM8937 + PMI8952/PMI8937 Reference Schematic |
| 80-P2470-111 | MSM8917 + PM8937 + PMI8952/PMI8937 Schematic Review Checklist |
| 80-P2470-112 | MSM8917 + PM8917 + PMI8952/PMI8937 Layout Review Checklist |
| HS11-P2470-1HW | MSM8917 IBIS Model |
| HS11-P2470-1AHW | MSM8917 V5 IBIS Model |
| HS11-P2470-1BHW | MSM8917 CSI AMI IBIS Model |
| HS11-P2470-1CHW | MSM8917 DSI AMI IBIS Model |
| HS11-P2470-1DHW | MSM8917 USB AMI IBIS Model |
| HS11-P2470-2HW | MSM8917 BSDL File |
| HS11-P2470-5HW | MSM8917 Thermal Package Model ICEPAK |
| HS11-P2470-6HW | MSM8917 Thermal Package Model Flotherm |
| HS11-P2470-13HW | MSM8917 DDR Package Model |
| **Power management documents** | |
| 80-P2564-1 | PM8937 Power Management IC Device Specification |
| 80-P2564-2X | PM8937 Hardware Register Description |
| 80-P2564-4 | PM8937 Device Revision Guide |
| 80-P2564-5A | PM8937 + PMI8952 Power Management IC Design Guidelines/Training Slides |
| 80-P2564-5B | PM8937 + PMI8937 Power Management IC Design Guidelines/Training Slides |
| 80-P2564-5C | PM8937 Chipset Audio Hardware Design Guidelines/Training Slides |
| 80-NT391-1 | PMI8952 Power Management Ic Device Specification |
| 80-NT391-2X | PMI8952 Hardware Register Description |
| 80-NT391-4 | PMI8952 Device Revision Guide |
| 80-P2563-1 | PMI8937 Power Management IC Device Specification |
| 80-P2563-2X | PMI8937 Hardware Register Description |
| 80-P2563-4 | PMI8937 Device Revision Guide |
| **WLAN documents** | |
| 80-WL007-1 | WCN3680B/WCN3660B Device Specification |
| 80-WL007-4 | WCN3680B Device Revision Guide |
| 80-WL009-1 | WCN3615 Wireless Connectivity IC Device Specification |
| 80-WL009-4 | WCN3615 Device Revision Guide |
| 80-WL009-5A | WCN3615 Training and Design Guidelines |
| 80-WL009-44 | WCN3615 Wireless Connectivity Reference Schematic |
| **WTR2655 RF transceiver documents** | |
| 80-NP237-1 | WTR2X55/WTR2965 Wafer-Level RF Transceiver Device Specification |
| 80-NP237-4 | WTR2X55/WTR2965 Wafer-Level RF Transceiver Device Revision Guide |

**MAY CONTAIN U.S. AND INTERNATIONAL EXPORT CONTROLLED INFORMATION**

| DCN | Document title or description |
|---|---|
| 80-NP237-5 | PRESENTATION: WTR2X55/WTR2965 Wafer-Level RF Transceiver Design Guidelines/Training Slides |
| 80-NP237-42 | Chile Non-CA Reference Schematic Using WTR2X55/WTR2965 and Qualcomm RF360 |
| 80-NP237-43 | NA CA Reference Schematic Using WTR2955 and qualcomm RF360 |
| 80-NP237-44 | JP/KR CA Reference Schematic Using WTR2955 AND Qualcomm RF360 |
| 80-NP237-45 | Chile CA Reference Schematic Using WTR2955 and Qualcomm RF360 |
| 80-NP237-46 | WTR2955 and Qualcomm RF360 Global CA Reference Schematic |
| 80-NP237-47 | WTR2X55/WTR2965 + Qualcomm RF360 with QFE4320, QFE2340 Chile Non-CA RF Sawless |
| 80-NP237-48 | WTR2965 + Qualcomm RF360 with QFE4320, QFE4303, AND QFE4305 ULCA Reference Schematic |
| 80-NP237-49 | WTR2965 and Qualcomm RF360 Global CA Design Example |
| 80-NP237-50 | WTR2965 + Qualcomm RF360 with QFE4320 and QFE2340 China 2DL CA Design Example |
| 80-NP237-51 | WTR2965 + Qualcomm RF360 with QPA4373, QFE430X Non-CA Sawless Reference Schematic |
| 80-NP237-111 | WTR2X55/WTR2965 Schematic Review Checklist |
| 80-NP237-112 | WTR2955/WTR2655 Layout Review Checklist |
| 80-NP237-121 | WTR2955/WTR2965 Port Mapping Spreadsheet |

# 4 Common platform

This chapter lists the common platform related documents. Common platform documents are organized in the following categories:

- General documents
- Audio
- BSP
- EFS
- Flash
- Power
- Security
- Stability and debugging
- USB

## 4.1 General documents

**Table 4-1  General documents**

| Title | DCN |
|-------|-----|
| QMI Master Document | 80-NK255-1 |

## 4.2 Audio

**Table 4-2  Audio documents**

| Title | DCN |
|-------|-----|
| ADSP Debug Guide for OEMs | 80-NA354-3 |
| Fluence V5 Dual and Single Mic Noise Suppression Audio Tuning Guide | 80-NB428-2 |
| Presentation: Voice System ID (VSID) Definition and Use Cases | 80-NF711-1 |
| Volte Audio Concepts and Log Analysis | 80-NF802-1 |
| MSM8937/MSM8917 Linux Android Audio Overview | 80-P2485-5 |
| Mobile Data Modem Audio Calibration Database User Guide | 80-VM407-6 |
| MDMSM8937 Audio Overview | 80-P2485-5 |

## 4.3  BSP

**Table 4-3  BSP documents**

| Title | DCN |
|-------|-----|
| Sahara Protocol Specification | 80-N1008-1 |
| Low-Speed Peripherals Overview | 80-NA157-24 |
| Diagnostic System User Guide | 80-NA157-61 |
| MSM8937/MSM8953 Boot Architecture Overview | 80-P2485-1 |
| MSM8937 System Drivers PMIC Overview | 80-P2485-18 |
| MSM8937 PMIC Linux Software Driver Overview | 80-P2485-2 |
| MSM8937 Clock Plan | 80-P2485-20 |

## 4.4  EFS

**Table 4-4  EFS documents**

| Title | DCN |
|-------|-----|
| Application Note: EFS2 Power Down Handling Strategy | 80-N4892-1 |
| Application Note: EFS Prepopulate Feature | 80-NF891-1 |
| File System Subsystem Interface Control Document (ICD) | 80-V1294-11 |

## 4.5  Flash

**Table 4-5  Flash documents**

| Title | DCN |
|-------|-----|
| Qualcomm Factory Programming Specification for Nand Flash Version 2.1 | 80-VF498-1 |
| Presentation: Flash Devices and Drivers Overview | 80-VH776-1 |
| Flash Device Driver Interface Specification and Operational Description | 80-VK567-1 |
| Nand Flash Driver Page Layouts | 80-VP837-1 |
| Presentation: Flash Driver Dal Overview | 80-VT450-1 |
| Presentation: Flash Driver Hal Overview | 80-VT451-1 |

## 4.6  Power

**Table 4-6  PMIC and power documents**

| Title | DCN |
|-------|-----|
| Resource Power Manager (RPM.BF) User Guide | 80-NU154-10 |
| MSM8956/MSM8976/MSM8937 RPM Overview AND Debug | 80-NA157-15 |
| System Drivers PMIC API Interface Specification | 80-P2485-4 |
| MSM8952 Linux Android Charger Software User Guide | 80-P2485-18 |
| VREG Clock Software User Guide | 80-NV610-42 |

| Title | DCN |
|-------|-----|
| MSM8937 System Drivers PMIC Overview | 80-NV610-44 |
| MSM8937 System Power Overview | 80-NV610-47 |

# 4.7 Security

**Table 4-7 Security documents**

| Title | DCN |
|-------|-----|
| Core Security Services Document Set | 80-N5543-1 |
| Presentation: Modem Self-Authentication Overview | 80-NA157-18 |
| MSM8937 Security TrustZone QSEE Overview | 80-P2485-21 |

# 4.8 Stability and debugging

**Table 4-8 Stability and debugging documents**

| Title | DCN |
|-------|-----|
| MPSS Debug Guide | 80-NF515-10 |
| Diagnostic System User Guide | 80-NA157-61 |

# 4.9 USB

**Table 4-9 USB documents**

| Title | DCN |
|-------|-----|
| Presentation: HSIC Overview | 80-N1513-1 |
| Tuning the USB PHY Eye Diagram and Receiver Sensitivity | 80-NA648-1 |
| Linux USB Implementation Guide | 80-NF283-1 |

# 5 Modem

This chapter lists the modem documents. Modem-related documents are organized in the following categories:

- Modem protocol
- Call Manager
- Data services
- Multimode
- RF
- UASMS/WMS
- UIM
- User interface

## 5.1 Modem protocol

Section 5.1 lists the modem protocol-related documents.

- CDMA2000 (1X)
- EVDO
- GERAN
- WCDMA
- HSPA/DC-HSPA+
- UMTS
- LTE
- TD-SCDMA

### 5.1.1 Overview

**Table 5-1  Modem overview documents**

| Title | DCN |
|---|---|
| MSM89X7 Modem Software Overview | 80-P2485-12 |

## 5.1.2 CDMA2000 (1X)

**Table 5-2 CDMA2000 (1X) documents**

| Title | DCN |
|---|---|
| 1X Advanced Feature Description Document | 80-N0919-1 |
| 1X Circuit-Switched Fallback Feature Definition Document | 80-N2167-1 |
| Presentation: OTASP Implementation in DMSS | 80-V0223-1 |
| Presentation: Call Processing | 80-V0257-1 |
| Call Processing 1X Subsystem Interface Control Document (ICD) | 80-V1294-20 |
| Presentation: System Determination 2.0 | 80-VC513-1 |
| Presentation: P2 Mode/Control Hold Feature Overview | 80-V3088-1 |
| Qualcomm's Recommended System Selection Requirements for 1X and 1XEV-Do-Capable Terminals | 80-V8767-1 |
| Presentation: QCT VOIP Call Features | 80-VA446-1 |
| Tia-1082 Mobile Equipment Identifier (MEID) Feature Description | 80-VA831-1 |
| Presentation: Forward Link Interference Cancellation in CDMA2000 1X Systems | 80-VG506-1 |
| AMSS CDMA Sleep Mechanism | 80-VG898-1 |
| Presentation: Qualcomm Linear Interference Cancellation (QLIC) | 80-VK119-1 |
| Plus Code Dialing HPCD Table Information | 80-VK925-1 |
| Presentation: Impact Of Antenna Imbalance And Correlation ON 1X MS RXD Performance | 80-VP056-1 |
| Application Note: Otapa Implementation in DMSS | CL93-V1266-1 |
| Application Note: E911 Operation in DMSS | CL93-V1267-1 |
| Application Note: Fast Forward Power Control | CL93-V1289-1 |
| Application Note: Reverse Power Control | CL93-V1290-1 |
| Application Note: Action Time Processing in DMSS | CL93-V1293-1 |
| App Note: IS-2000 MUX Layer | CL93-V1991-1 |
| Application Note: Dynamic Configuration of IS-95B/IS-2000 OPTIONAL Features in DMSS/AMSS | CL93-V6376-1 |

## 5.1.3  EVDO

### Table 5-3  EVDO documents

| Title | DCN |
|---|---|
| Idle Digital Mode Overview | 80-N2449-1 |
| Application Note: Limitations On Windows XP for Dual-IP Bearer Over Singlermnet | 80-N2456-1 |
| Presentation: IS-856 Implementation Overview | 80-V3445-1 |
| White Paper: Introduction to Mobile Receive Diversity | 80-V5817-1 |
| Test Recommendations for 1XEV-DO Hybrid Mode Terminals | 80-V6313-1 |
| Enhanced Multi-Flow Packet Application Feature Definition Document | 80-V7647-1 |
| 1XEV-DO BCMCS Air Interface Feature Definition Document | 80-V8410-1 |
| 1XEV-DO BCMCS Call Processing Implementation | 80-V9035-1 |
| Presentation: Quality of Service (QOS) Overview | 80-V9199-1 |
| Presentation: Introduction to Simultaneous 1X Paging AND 1XEV-DO Traffic/BCMCS | 80-V9477-1 |
| Application Note: 1XEV-DO Redirection Implementation IN Hybrid Mode FOR AMSS 6500 | 80-V9949-1 |
| Implementation Suggestion: Separate NAIS for Tethered and Sockets Operation | 80-V9972-1 |
| Presentation: Introduction to 1XEV-DO | 80-VA238-1 |
| Presentation: Introduction to Broadcast Multicast Services (BCMCS) | 80-VA252-1 |
| 1XEV-DO Nonvolatile Memory Items | 80-VB048-1 |
| Quality of Service (QOS) Feature for 1XEV-DO Revision A | 80-VB296-1 |
| SHA-1 Authentication IOT Test Plan | 80-VB494-1 |
| Application Note: 1XEV-DO Equalizer for MSM6800 | 80-VC263-1 |
| Application Note: 1XEV-DO TX Power Backoff Functionality IN AMSS | 80-VC509-1 |
| Application Note: MSM6800 Throughput Performance | 80-VC877-1 |
| Videotelephony Feature for 1XEV-DO Feature Definition Document | 80-VC899-1 |
| Application Note: Avoiding 1XEV-DO System with Apersistence Equals 0X3F | 80-VC990-1 |
| MIP Deregistration BSI IOT Test Plan | 80-VD665-1 |
| Presentation: 1XEV-DO Data Services Overview | 80-VE661-1 |
| Presentation: System Determination Design Analysis | 80-VE705-1 |
| Qualcomm-Alcatel-Lucent 1XEV-DO REV A EMPA Interoperability Test Report | 80-VF630-1 |
| Presentation: Gold Bcmcs Interlace-Multiplex Config Guidelines for Optimal Standby Performance | 80-VF740-1 |
| Presentation: Hybrid Tune-Away Statistics - Paging Channel vs. Quick Paging Channel | 80-VF995-1 |
| Presentation: PSVT Solution Over EV-DO REV A | 80-VG000-1 |
| Presentation: Crash Debugging 1XEV-DO Chipsets | 80-VG260-1 |
| Presentation: EV-DO RX Diversity, SHDR, and Other 1X/DO Performance Improvements | 80-VG559-1 |
| Support of the AWS Band Class with 3GPP2 C.S0016 ON ESN Based Handsets Standard Update | 80-VH908-1 |
| AT Initiated GAUP Support for Slot Cycle INDEX 7 | 80-VJ638-1 |
| Interoperability Test Plan for Secondary Color Code Feature | 80-VJ855-1 |

| Title | DCN |
|---|---|
| Application Note: 1XEV-DO Keep Alive Procedures Enhancements | 80-VN840-1 |
| Guidelines FOR Field Test Cases | 80-VP191-1 |
| Presentation: Introduction to 1XEV-DO REV B | 80-VP829-1 |
| 1X/EV-DO FFA Provisioning User Guide | 80-VU399-1 |
| App Note: Creating A Preferred Roaming List for 1XEV-DO-Capable MS | CL93-V3803-1 |
| Application Note: IS-878 Operational Description | CL93-V3864-1 |
| Application Note: 1XEV Hybrid Terminal Operation | CL93-V4167-1 |

## 5.1.4  GERAN

### Table 5-4  GERAN documents

| Title | DCN |
|---|---|
| Presentation: Cell Broadcast in Geran DRX Mode | 80-N3938-1 |
| Presentation: Geran to LTE Redirection | 80-N5852-1 |
| Presentation: Geran-to-LTE Reselection | 80-N5853-1 |
| Presentation: AMSS GPRS LLC Overview | 80-V4184-1 |
| Presentation: AMSS GPRS MAC Overview | 80-V4190-1 |
| Presentation: AMSS GPRS RLC Overview | 80-V4192-1 |
| Presentation: Geran Overview | 80-V5355-1 |
| Generic Subscriber Identity Module Application Toolkit API Interface Specification | 80-V5421-1 |
| Application Note: GSM Linear PA Calibration And Data Processing for NV Generation | 80-V9774-16 |
| Presentation: SAIC/DARP Feature for Geran | 80-VE476-1 |
| Presentation: Repeated Facch | 80-VG697-1 |
| Presentation: Typical PS Call Setup and Release | 80-VG977-1 |
| Presentation: Dedicated Mode Procedures in GSM | 80-VG979-1 |
| Presentation: Dual Transfer Mode and Enhanced Dual Transfer Mode | 80-VH276-1 |
| Presentation: ESAIC Feature for Geran | 80-VK414-1 |
| Presentation: Network Assisted Cell Change (NACC) | 80-VN339-1 |

## 5.1.5 WCDMA

**Table 5-5  WCDMA documents**

| Title | DCN |
|---|---|
| Qualcomm Interference Cancellation and Equalization (Q-ICE) Test Procedure | 80-N5053-1 |
| Application Note: CSG Application (AT&T UI Requirement) | 80-NG376-1 |
| Presentation: Closed Subscriber Group (CSG) Overview | 80-NG428-1 |
| Application Note: Disabling ENH CELL_FACH FOR UL (HS-RACH) and Enhanced L2 FOR UL (MAC-I/IS) Feature | 80-NH339-1 |
| Serial Interface Control Document for WCDMA | 80-V2708-3 |
| Presentation: AMSS WCDMA Layer 1 | 80-V3451-1 |
| Presentation: AMSS WCDMA RLC | 80-V3454-1 |
| Presentation: AMSS WCDMA RRC | 80-V3565-1 |
| Presentation: WCDMA MAC LAYER (L2) | 80-V3771-1 |
| Presentation: WCDMA Protocols Overview | 80-V3774-1 |
| Presentation: WCDMA RLC LAYER (L2) | 80-V3775-1 |
| Presentation: WCDMA RRC LAYER (L3) | 80-V3776-1 |
| Presentation: AMSS WCDMA Architecture | 80-V5378-1 |
| Presentation: MBMS FOR WCDMA L2 Software | 80-VF799-1 |
| Presentation: AMSS INTER-RAT Overview | 80-VH774-1 |
| Presentation: INTER-RAT Handover | 80-VN337-1 |
| Presentation: INTER-RAT Cell Change Order | 80-VN338-1 |
| Presentation: REDIRECTION VIA RRC Connection Reject Message | 80-VN340-1 |
| Presentation: GSM-TO-WCDMA Measurements | 80-VN341-1 |
| Presentation: AMSS WCDMA MAC Layer Overview | 80-VR024-1 |

## 5.1.6  HSPA/DC-HSPA+

**Table 5-6  HSPA/DC-HSPA+ documents**

| Title | DCN |
|---|---|
| Presentation: Enhanced Uplink on Cell_Fach/Idle (HS-RACH) | 80-NB921-2 |
| Application Note: CQI and BLER Alignment Analysis | 80-VB679-1 |
| Presentation: HSDPA State Transition | 80-VB716-1 |
| Presentation: CQI Overview | 80-VB740-1 |
| Presentation: HSDPA Log Analysis | 80-VB747-1 |
| Application Note: Impact OF Multipath Components on CQI | 80-VB845-1 |
| Presentation: HSUPA Overview | 80-VC487-1 |
| Presentation: EUL Log Analysis | 80-VE195-1 |
| Presentation: HSDPA Throughput Specific Topics | 80-VE487-1 |
| Presentation: SERVING Grant Update and E-TFC Selection | 80-VG011-1 |
| Presentation: HSPA+ Continuous Packet Connectivity (CPC) | 80-VJ078-1 |
| Presentation: HSPA+ MIMO | 80-VJ079-1 |

| Title | DCN |
|---|---|
| Presentation: HSPA+ Higher Order Modulation | 80-VJ080-1 |
| Presentation: Introduction TO HSPA+ | 80-VJ081-1 |
| Presentation: HSPA+ Enhanced RRC States | 80-VK068-1 |
| Presentation: HSPA+ Enhanced L2 | 80-VK069-1 |
| Presentation: Enhanced F-DPCH | 80-VK163-1 |
| Presentation: HSPA+ Evolution in 3GPP Release 8 | 80-VU022-1 |

## 5.1.7  UMTS

### Table 5-7  UMTS documents

| Title | DCN |
|---|---|
| Presentation: Hsdpa Call Setup And Data Throughput Analysis | 80-N0609-1 |
| Presentation: HSUPA Call Setup and Data Throughput Analysis | 80-N0654-1 |
| Presentation: UMTS/GSM NAS - REG AMSS Implementation | 80-N2324-9 |
| NV Items Configuration Mandated by AT&T | 80-N4812-1 |
| Presentation: LTE TO/FROM WCDMA Cell Reselection | 80-N6386-1 |
| Presentation: LTE TO UMTS SRVCC Overview | 80-ND074-1 |
| Application Note: Fast Switch to Geran After Unsuccessful Redirection From LTE TO WCDMA | 80-ND961-1 |
| Application Note: Support for UMTS Band 850 MHZ | 80-VB910-1 |
| Presentation: Background PLMN Search Overview | 80-VC055-1 |
| Application Note: Silent Redial FOR Voice Calls | 80-VE085-1 |
| Presentation: AMSS Problem Reporting and Log Collection Procedures | 80-VE482-1 |
| Presentation: MBMS for WCDMA RRC Software | 80-VF722-1 |
| Presentation: MBMS for WCDMA L1 Software | 80-VF723-1 |
| Presentation: MBMS IN 3GPP Specification | 80-VF724-1 |
| Presentation: MBMS Overview | 80-VF726-1 |
| Presentation: MBMS Data Call Flows | 80-VF755-1 |
| Presentation: MBMS Application and Security | 80-VF829-1 |
| Presentation: Compressed Mode and INTER-RAT Handover | 80-VG976-1 |
| Presentation: UMTS/INTER-RAT CELL Reselection | 80-VG982-1 |
| Presentation: UMTS CS and PS Call Setup and Release | 80-VG987-1 |
| Presentation: UMTS Cell Selection | 80-VG988-1 |
| Presentation: TTCN and Log Analysis Overview | 80-VG990-1 |
| Variables for Debug or Engineering Screen | 80-VK317-1 |
| Presentation: Network Sharing Overview | 80-VM637-1 |
| Application Note: Service Status During LU Attempts | 80-VP872-1 |

## 5.1.8  LTE

### Table 5-8  LTE documents

| Title | DCN |
|---|---|
| Presentation: LTE AS - Intrafrequency idle and Connected Mode Mobility | 80-N0054-1 |
| Presentation: LTE AS - Out Of Service and Radio Link Monitoring Overview | 80-N0055-1 |
| Presentation: LTE-TO-EHRPD Blind Redirection - IRAT Overview AND Procedures | 80-N0056-1 |
| Presentation: LTE NAS - Architecture Overview | 80-N0057-1 |
| Presentation: LTE NAS - EMM Implementation/Debug | 80-N0058-1 |
| Presentation: LTE NAS - ESM Implementation/Debug | 80-N0059-1 |
| Presentation: LTE Call Manager Overview | 80-N0060-1 |
| Test Setup To Validate LTE-TO-EHRPD Redirection | 80-N0701-1 |
| Application Note: Disabling Geran Capabilities on MDM9X00 Software | 80-N2294-1 |
| Application Note: SMS Over IMS Customization for the Verizon Network | 80-N2915-1 |
| Presentation: LTE NAS - SMS Support Overview | 80-N3220-1 |
| Presentation: 3GPP Circuit Switched Fallback (CSFB) Overview | 80-N3729-1 |
| Application Note: LTE Configuration for RX Chain Tests | 80-N4023-1 |
| C2K TO E-UTRA Cell Reselection Feature Definition Document (FDD) | 80-N4483-1 |
| Application Note: LTE->W/G Fast Redirection | 80-N4486-1 |
| Presentation: LTE TDD Overview | 80-N4664-1 |
| Presentation: LTE TDD Functional Overview | 80-N4964-1 |
| Application Note: LTE NAS EFS/NV Configurations | 80-N5074-1 |
| Application Note: Controlling Primary/Diversity RX Chains on MDM9X00 Devices | 80-N5220-1 |
| Application Note: Service Domain Selection (SDS) Implementation IN CSFB | 80-N5361-1 |
| Presentation: WCDMA to/from LTE Redirection Procedure | 80-N5576-19 |
| Application Note: Mobility from UMTS to LTE | 80-N5896-1 |
| Application Note: PLMN/RAT Selection - GSM/WCDMA/LTE/TD-SCDMA Targets | 80-N9533-2 |
| Application Note: Enabling Link Control for Multiple MO SMS | 80-N9659-1 |
| Presentation: LTE Connected Mode DRX | 80-N9719-1 |
| Presentation: LTE Cell Reselection and Redirection Overview | 80-N9810-1 |
| Presentation: LTE Connected Mode and Data Transfer | 80-N9812-1 |
| Application Note: IMS Configuration Overview | 80-N9839-1 |
| Application Note: Disabling Carrier Aggregation | 80-NA157-137 |
| Application Note: Configuring Default LTE UE CAT TO CAT 2 OR CAT 3 USING EFS | 80-NA720-1 |
| Presentation: LTE AS - Carrier Aggregation Overview | 80-NB749-1 |
| Presentation: LTE AS - CPU-Based Flow Control Overview | 80-NB749-2 |
| Presentation: LTE AS - Release 10 Mandatory Features | 80-NB749-3 |
| Presentation: LTE Connected Mode Gap Measurement | 80-NB855-1 |
| Application Note: Feature Group Indicators in LTE | 80-NC526-1 |
| Presentation: LTE - ISM Band Coexistence Overview | 80-NC600-1 |
| Presentation: LTE TO WCDMA SON/ANR Overview | 80-ND166-1 |
| Presentation: LTE TDD Overview and Log Analysis | 80-ND387-1 |

**MAY CONTAIN U.S. AND INTERNATIONAL EXPORT CONTROLLED INFORMATION**

| Title | DCN |
|---|---|
| Presentation: LTE AS - VOLTE AS Features AND Log Analysis | 80-ND484-1 |
| Presentation: EMBMS LTE as Overview | 80-ND654-1 |
| Presentation: LTE TDD IRAT - LTE TDD <-> TD-SCDMA Idle Mode Reselection | 80-NE407-1 |
| Presentation: LTE TDD IRAT - TD-SCDMA Redirection-->LTE | 80-NE407-2 |
| Presentation: LTE TDD TO TD-SCDMA Inter-RAT PS HO | 80-NE407-3 |
| Presentation: LTE TDD IRAT - LTE-TDD<->TD-SCDMA BPLMN Procedures Overview | 80-NE407-5 |
| Presentation: LTE TDD INTER-RAT Overview | 80-NE407-7 |
| Presentation: LTE Mobility Between TDD and FDD overview | 80-NE481-1 |
| Presentation: LTE AS - Typical Field Scenarios/Checklists | 80-NE962-1 |
| Application Note: Enabling ZUC Algorithms IN LTE Security Capabilities | 80-NF455-1 |
| Application Note: Enabling LTE FDD/TDD Split FGI Feature (RP-120355) | 80-NF911-1 |
| Presentation: EMBMS- LTE as Log Analysis Overview | 80-NF987-1 |
| Presentation: LTE TO GSM SRVCC - Concepts and Log Analysis | 80-NG001-1 |
| LTE TDD-LTE FDD Mobility (Redirection/PS HO/Reselection) Overview and Log Analysis | 80-NG621-1 |
| Application Note: Connection Control FOR LTE RRC | 80-NH496-1 |
| Presentation: LTE Position Protocol, LTE OTDOA, and Assisted GNSS Over LTE Overview | 80-NT693-1 |
| Optimizing IDLE Mode Power IN M2M Devices | 80-P3582-1 |
| Cell Lock Feature Overview | 80-P3624-1 |
| Correction to Signaling of Multiple PLMNS IN SIB18 | 80-P3704-1 |
| UMTS and LTE Protocol NV Items | 80-VF299-1 |
| Qualcomm LTE Feature Group Indicators (FGI) Compliance Document | 80-VL053-1 |
| Qualcomm LTE 3GPP 23.XXX Compliance Document | 80-VL062-1 |
| Qualcomm LTE 3GPP 36.XXX Compliance Document | 80-VL063-1 |
| Multimode System Selection Based on 3GPP2 Standard Feature Design Document | 80-VL064-1 |
| Presentation: LTE AS - Basic Call Procedures Overview | 80-VL099-1 |
| Presentation: LTE AS - Cell Selection and DRX/Paging | 80-VL100-1 |
| Serial Interface Control Document (ICD) for Long Term Evolution (LTE) | 80-VP457-1 |
| Presentation: LTE Physical Layer Overview | 80-VR074-1 |
| Presentation: LTE RRC Overview | 80-VR075-1 |
| Presentation: LTE RLC Layer | 80-VR076-1 |
| Presentation: LTE MAC Overview | 80-VR077-1 |
| Presentation: LTE PDCP Overview | 80-VR078-1 |
| Redirection-Based Mobility from E-UTRA TO CDMA2000 Feature Definition Document | 80-VR259-1 |
| Presentation: LTE Overview | 80-VR385-1 |
| Presentation: LTE IRAT Overview | 80-VR386-1 |
| Presentation: LTE Non Access Stratum (NAS) Overview | 80-VT671-1 |
| Qualcomm RAN5 LTE Feature List Compliance Document | 80-VT966-1 |

## 5.1.9  TD-SCDMA

**Table 5-9  TD-SCDMA documents**

| Title | DCN |
|---|---|
| Presentation: TD-SCDMA Software Overview | 80-N5576-22 |
| Presentation: MDM9X15 2.0 System Selection and TD-SCDMA Mode ConfiguratioN | 80-N5576-58 |
| Presentation: TD-SCDMA Cell Selection and DRX/PAGING | 80-N5576-64 |
| Presentation: TD-SCDMA Inter-RAT Overview | 80-N5576-65 |
| Presentation: TD-SCDMA RLC Overview | 80-N5576-66 |
| Presentation: TD-SCDMA HSUPA Overview | 80-N5576-67 |
| Presentation: MPSS TD-SCDMA Architecture Overview | 80-N5576-68 |
| Presentation: TD-SCDMA Inter-RAT Cell Change Order | 80-N5576-70 |
| Presentation: TD-SCDMA Inter-RAT Handover | 80-N5576-71 |
| Presentation: TD-SCDMA-to-GSM Measurements | 80-N5576-72 |
| Presentation: TD-SCDMA RSCP Scheduling | 80-N5576-73 |
| Presentation: TD-SCDMA Cell Reselection and OOS | 80-N5576-74 |
| Presentation: TD-SCDMA MAC Overview | 80-N5576-77 |
| Presentation: TD-SCDMA HSDPA Overview | 80-N5576-80 |
| Presentation: TD-SCDMA--->TDD LTE PS HO Overview | 80-NE407-6 |
| Application Note: TD-SCDMA Band Search Control | 80-NF219-1 |
| Application Note: TD-SCDMA CTA (CMCC/MTNET) Lab Configuration Clarifications | 80-NF220-1 |

# 5.2  Call Manager

**Table 5-10  Call Manager documents**

| Title | DCN |
|---|---|
| Application Note: List of NV Items Tied to Subscription Changed Event | 80-N5576-82 |
| Common Modem API Interface Specification | 80-N9218-1 |
| ALS Design for CM/SIM Software Design Document | 80-V8392-1 |
| Presentation: Multimode Controller (MMOC) | 80-VC512-1 |
| Presentation: Multimode Call Manager Overview | 80-VC514-1 |
| Application Note: Software Update to Support HICPS With IS-683A Default DO Channel Feature | 80-VP830-1 |

# 5.3  Data services

**Table 5-11  Data services documents**

| Title | DCN |
|---|---|
| Data Services Profile Registry API | 80-N4766-1 |
| Presentation: QMI IDL/QCCI/QCSI Overview | 80-N4863-1 |

| Title | DCN |
|---|---|
| Application Note: QMI Vendor-Specific Services with IDL/QCSI/QCCI | 80-N5706-1 |
| QMI CSD 1.12 FOR APSS, QMI Core Sound Driver Spec | 80-NB227-25 |
| QTI Tethering Interface on MDM9X25 AND MDM9X35 LE Release User Guide | 80-NC254-62 |
| Presentation: QMI UIM AND QMI CAT Overview | 80-NJ897-1 |
| MSM89X7 Modem Data Services Overview | 80-P2485-16 |
| IPV6 Implementation and Configuration | 80-VD229-1 |
| Application Note: Asymmetric Bidirectional TCP Throughput | 80-VE774-1 |
| Data Services Aspects FOR E-UTRA/EHRPD/1XRTT Mobility Feature Definition Document | 80-VR258-1 |
| Application Note: Comprehensive at Command Set IN AMSS software | 80-VR432-1 |
| Presentation: Introduction to EHRPD | 80-VR815-1 |
| Presentation: LTE Data Service Overview | 80-VT387-1 |
| Presentation: LTE Data Call Scenarios | 80-VU868-1 |
| Application Note: Comprehensive at Command Set in AMSS Software | 80-VR432-1 |

# 5.4 GPS

### Table 5-12  GPS documents

| Title | DCN |
|---|---|
| Application Note: On-Demand Positioning (ODP) Feature - Licensee Responsibility | 80-N1336-1 |
| Application Note: MMSS 3.1 Provisioning Procedure | 80-N1814-1 |
| Presentation: Performance Test Results for GPSONE Gen 8 Engine Release 1.0 | 80-N3005-1 |
| Presentation: How Do In-Band Jammers Affect GPS Performance? | 80-N3522-1 |
| GPS/GNSS System Integration Reference Guide | 80-N4094-1 |
| Presentation: GPS + GLONASS (GNSS) Test Results | 80-N4333-1 |
| Application Note: Recommendation for AT&T AGPS Control Plane Testing | 80-N4585-1 |
| Presentation: IZAT GNSS GEN 8A/8B/8C Engine Overview | 80-N5182-1 |
| Location API 2.X Interface Specification | 80-N5461-1 |
| Mems Sensor and Data Acquisition System Requirements for Sensor-Assisted Positioning Integration | 80-N7125-1 |
| Presentation: Global Terrestrial Positioning (GTP) WWAN Overview | 80-N7207-1 |
| Presentation: XTRA-T Server Access Options and BSA Creation | 80-N7207-2 |
| Application Note: GPSONE Gen 8 Test Functions | 80-N8367-1 |
| Presentation: Sensor-Assisted Positioning (SAP) Documentation Overview | 80-N8686-2 |
| Presentation: Sensor-Assisted Positioning (SAP) Overview | 80-N8686-3 |
| Presentation: Sensor-Assisted Positioning (SAP) Verification and Power | 80-N8686-4 |
| Sensor-Assisted Positioning (SAP) Sensor Hardware Verification | 80-N8686-5 |
| Sensor-Assisted Positioning (SAP) Android Integration Guide | 80-N8686-6 |
| Identifying Qualcomm IZAT XTRA Devices in HTTP Get File Requests Application Note | 80-ND684-1 |
| QMI LOC 2.24, QMI Location SVC Spec | 80-VB816-17 |
| QMI PDS 1.35, QMI Position Determination Service Spec | 80-VB816-8 |

| Title | DCN |
|---|---|
| Presentation: GPSONEXTRA Client and Test Application for Brew | 80-VF936-1 |
| Presentation: GPSONE Testing and Troubleshooting | 80-VG182-1 |
| Location Application Programming Interface Functional Requirements Specification | 80-VP465-1 |
| GPS CN0 and Frequency Measurement in Production Line Testing | 80-VR679-1 |
| Qualcomm Wi-Fi Positioning System Integration Guide | 80-VT766-1 |
| Presentation: GPSONE Gen 8 Engine Overview | 80-VU455-1 |
| IZAT Gen 8 Engine (1X AND UMTS) Nonvolatile Items Description | 80-VU905-1 |

## 5.5 Multimode

### Table 5-13  Multimode documents

| Title | DCN |
|---|---|
| Application Note: Blocking Certain Types of Pages in Emergency Callback Mode | 80-N0427-1 |
| Modem Software Configuration Overview | 80-N5576-96 |
| Flexible SIM Configuration for China Seven Modes Open Market Device | 80-NR083-1 |
| Updating Modem Configurations in Factory AND OTA | 80-NV514-1 |
| Presentation: Multimode System Selection | 80-VT878-1 |

## 5.6 RF

### Table 5-14  RF documents

| Title | DCN |
|---|---|
| Presentation: MDM9X25 WTR RF Frontend Software Overview | 80-NC254-28 |
| Presentation: XO Factory Calibration Software Training | 80-NC398-7 |
| Presentation: MIPI RFFE debugging with QRCT | 80-NE606-1 |
| Application Note: TLMM Changes and Impact on RFC Implementation | 80-NE606-10 |
| Third-Party MIPI ASM Customization | 80-NE606-2 |
| MIPI PA Customization | 80-NE606-3 |
| Application Note: Generic RF Controls (GRFC) Customization | 80-NE606-4 |
| Presentation: Modify MIPI Device USID | 80-NF381-1 |
| Application Note: TD-SCDMA RX Sensitivity Measurement | 80-NH181-1 |
| RF Design Review Process (SW) Customer Engineering | 80-NH296-1 |
| MSM8909/MSM8937/MDM9607 Factory Test Overview | 80-NT093-3 |
| Presentation: MPSS.JO.1.0 RF Tool Overview | 80-NT093-4 |
| Comprehensive MSM8909 Family RF NV Items | 80-NT112-100 |
| MSM89X7 RF Bringup User Guide | 80-P2485-14 |
| MSM89X7 RFC Customization | 80-P2485-15 |
| MSM89X7 RF Software Overview | 80-P2485-3 |
| Application Note: GSM Linear PA Calibration and Data Processing for NV Generation | 80-V9774-16 |

| Title | DCN |
|-------|-----|
| Presentation: Qualcomm Development Acceleration Resource Toolkit (QDART) Customer Training | 80-VJ091-1 |

## 5.7 UASMS/WMS

### Table 5-15 UASMS/WMS documents

| Title | DCN |
|-------|-----|
| Wireless Messaging Services (WMS) API Interface Specification | 80-N2128-1 |
| WMS DIAG Subsystem Interface Control Document (ICD) | 80-V1294-6 |
| Presentation: Multimode SMS/EMS/BCSMS | 80-V4092-1 |
| Application Note: WMS 1X Broadcast API Migration | 80-VG092-1 |

## 5.8 UIM

### Table 5-16 UIM documents

| Title | DCN |
|-------|-----|
| Presentation: CSIM and Mmgsdi Session API Feature Overview | 80-N0061-1 |
| Application Note: Recommendations for Configuring 3G USIM Card for LTE | 80-N0112-1 |
| UICC/USIM Feature Definition Document | 80-N0879-1 |
| Presentation: UIM Technology Workshop | 80-N3006-1 |
| Presentation: Simultaneous PDN Compatibility Matrix | 80-N3779-1 |
| Personalization Feature Design Overview | 80-N5899-1 |
| Presentation: UIM Drivers-Based Log Analysis Overview | 80-NE802-1 |
| Presentation: GSTK-Based Log Analysis Overview | 80-NF166-1 |
| Presentation: GSTK Overview | 80-NG610-1 |
| Presentation: UIM Technology Overview | 80-NH301-1 |
| Treat Dialing 120 only as ECC Number IN CT Network | 80-P3052-1 |
| Multimode Generic Card Interface Specification and Operational Description (ISOD) | 80-V0072-1 |
| Presentation: SIM/USIM/R-UIM Architecture | 80-V3989-1 |
| Multimode GSDI SIM, USIM, and R-UIM Interface Specification and Operational Description | 80-V5329-1 |
| GSDI Diagnostic (GSDI DIAG) Interface Control Document (ICD) | 80-V7032-1 |
| Personalization Call Flows | 80-VC331-1 |
| SIM Lock Feature Interface Specification and Operational Description | 80-VD529-1 |
| Presentation: UIM Feature Overview | 80-VH178-1 |
| Application Note: Enhanced Network Selection for AT&T | 80-VJ252-1 |
| Application Note: Verizon Requirement for ECC Calls | 80-VL066-1 |
| Application Note: Requirements and Recommendations to Implement the ICC/UICC Hot-Swap Feature | 80-VN059-1 |
| MMGSDI Diagnostic (MMGSDI Diag) Interface Control Document | 80-VN233-1 |

| Title | DCN |
|---|---|
| MMGSDI Session Enhancements Interface Specification and Operational Description | 80-VT475-1 |

## 5.9  User interface

**Table 5-17  User interface documents**

| Title | DCN |
|---|---|
| QMI PBM 1.16, QMI Phonebook Manager SVC Spec | 80-VB816-15 |
| Phone Book Manager Interface Specification and Operational Description | 80-V7485-1 |

## 5.10  NV

**Table 5-18  NV in modem documents**

| Title | DCN |
|---|---|
| Application Note: Band Preference Settings for GSM/UMTS/LTE/TD-SCDMA Targets | 80-VD664-1 |
| UMTS and LTE Protocol NV Items | 80-VF299-1 |
| Call Manager and System Determination Nonvolatile Memory Items | 80-VJ742-1 |
| RTR86XX, QTR86XX, QSC61X5, QSC6X95, MDM6X00, MDM8220, and MDM9X00 Select RF NV Items App Note | 80-VP447-13 |
| Application Note: LTE RF NV Items | 80-VP146-14 |

# 6 Connectivity

## 6.1 WLAN and Qualcomm MobileAP

**Table 6-1  WLAN and Qualcomm MobileAP documents**

| Title | DCN |
|-------|-----|
| QCA WCN36X0 Software Architecture | 80-Y0513-1 |
| MDM9X07 Qualcomm MobileAP API Interface Specification | 80-P2200-33 |

# 7 Linux

**Table 7-1  Linux documents**

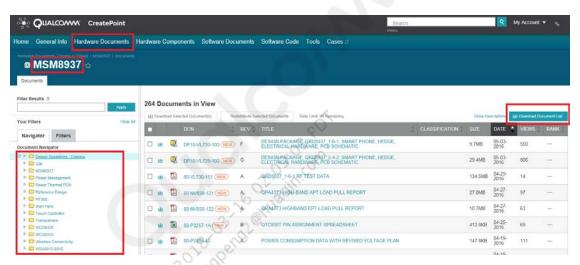| Title | DCN |
|---|---|
| Linux Audio Device Management | 80-NL239-28 |
| MSM8937 Android Performance Overview | 80-P2485-11 |
| MSM8937 Linux Android Software Debug Manual | SP80-P2485-5 |
| MSM8937 Linux Android Software Porting Manual | SP80-P2485-6 |
| MSM8937 Linux Android Software User Manual | SP80-P2485-4 |
| MSM8937 Software Migration Overview | 80-P2485-26 |

# 8 Testing leverage

MSM8937/MSM8917 modem is leveraged from MSM8909. So, GCF, IOT, field, and lab test reports on MSM8909 target are applicable to MSM 8937/MSM8917.

# A Download documents from CreatePoint

This appendix explains how a CreatePoint user can download documents from CreatePoint.

1. Login to your CreatePoint account at https://createpoint.qti.qualcomm.com/.

2. To acces the Hardware documents, click **Hardware Documents**.



3. To acces the Software documents, click **Software Documents.**

4. Enter a chipset (e.g., MSM8937) in the **Specify a Software Product** field on the left panel, and then select the software product (e.g., MSM8937.LA.1.0 OEM)