To enable mPDN on the EM7565 enter:

At!entercnd=”A710”

At!netnum=4 (or the number of max. pDNs)

ati

Manufacturer: Sierra Wireless, Incorporated

Model: EM7565

Revision: SWI9X50C\_01.08.04.00 dbb5d0 jenkins 2018/08/21 21:40:11

MEID: 35926008000022

ESN: 12801925343, 801D60DF

IMEI: 359260080000224

IMEI SV: 8

FSN: UF726185760404

+GCAP: +CGSM

OK

at!gstatus?

!GSTATUS:

Current Time: 520 Temperature: 23

Reset Counter: 5 Mode: ONLINE

System mode: LTE PS state: Attached

LTE band: B4 LTE bw: 20 MHz

LTE Rx chan: 2150 LTE Tx chan: 20150

LTE SSC1 state:NOT ASSIGNED

LTE SSC2 state:NOT ASSIGNED

LTE SSC3 state:NOT ASSIGNED

LTE SSC4 state:NOT ASSIGNED

EMM state: Registered Normal Service

RRC state: RRC Idle

IMS reg state: No Srv

PCC RxM RSSI: -55 PCC RxM RSRP: -81

PCC RxD RSSI: -55 PCC RxD RSRP: -81

Tx Power: -- TAC: 0001 (1)

RSRQ (dB): -6.2 Cell ID: 01a2d101 (27447553)

SINR (dB): 30.0

OK

at+cgcontrdp

+CGCONTRDP: 1,5,default,192.168.2.2,2001:468:2000:1:2001:468:2000:1, FE80:0:0:0:B674:A246:97C9:F3B2,8.8.8.8 2001:4860:4860:0:0:0:0:8888,

OK

at+cgdcont?

ERROR

at+cgdcont?

+CGDCONT: 1,"IPV4V6","default","0:0:0:0:0:0:0:0",0,0,0,0

+CGDCONT: 2,"IP","carlsbad","0.0.0.0",0,0,0,0

OK

=== driver , **IPAlias = 0**

[612590.778685] GobiSerial: 2018-08-24/SWI\_2.34:GobiSerial

[691244.615128] GobiNet: 2018-08-24/SWI\_2.53

[691293.683229] usb 3-6: new high-speed USB device number 52 using xhci\_hcd

[691293.812055] usb 3-6: config 1 has an invalid interface number: 8 but max is 3

[691293.812064] usb 3-6: config 1 has no interface number 1

[691293.812939] usb 3-6: New USB device found, idVendor=1199, idProduct=9091

[691293.812947] usb 3-6: New USB device strings: Mfr=1, Product=2, SerialNumber=3

[691293.812952] usb 3-6: Product: Sierra Wireless EM7565 Qualcomm® Snapdragon™ X16 LTE-A

[691293.812956] usb 3-6: Manufacturer: Sierra Wireless, Incorporated

[691293.812959] usb 3-6: SerialNumber: UF72618576040424

[691293.814677] GobiSerial 3-6:1.0: GobiSerial converter detected

[691293.814943] usb 3-6: GobiSerial converter now attached to ttyUSB0

[691293.815664] GobiSerial 3-6:1.2: GobiSerial converter detected

[691293.815870] usb 3-6: GobiSerial converter now attached to ttyUSB1

[691293.816589] GobiSerial 3-6:1.3: GobiSerial converter detected

[691293.816750] usb 3-6: GobiSerial converter now attached to ttyUSB2

[691293.817913] GobiNet 3-6:1.8 eth0: register 'GobiNet' at usb-0000:00:14.0-6, GobiNet Ethernet Device, b2:40:80:90:6b:9e

[691293.818010] QMAP Enabled

[691293.818780] USB Speed : USB 2.0

[691293.836561] GobiNet 3-6:1.8 enp0s20u6i8: renamed from eth0

[691304.379252] creating qcqmi0

[691304.379511] RawIP mode

[691662.914094] Adaptor Not Up

#### SDK-lite console

root@sierra-Lenovo-G510:/home/sierra/SLQSSDK/SLQS04.00.16\_customer/SampleApps/lite-qmi-demo# cp bin/packingdemohostx86\_64 /tmp

#### PDN1

root@sierra-Lenovo-G510:/home/sierra/SLQSSDK/SLQS04.00.16\_customer/SampleApps/lite-qmi-demo# ./startdatacall.sh start 1 1 4 0 0 0 testconfig1.txt

g\_ip\_version:4

iNumber:2

========1/2. MUXID:0x80 IPv4===========

========Update EthName gobi-0-0===========

root@sierra-Lenovo-G510:/home/sierra/SLQSSDK/SLQS04.00.16\_customer/SampleApps/lite-qmi-demo# unpack\_wds\_SetMuxID 0

unpack\_wds\_SLQSSetIPFamilyPreference 0

unpack\_wds\_SLQSStartDataSession 0

StartDataSessions id 1230122816

WDS INDICATION from Mux ID : 0x80

WDS INDICATION from Mux ID : 0x80

WDS INDICATION from Mux ID : 0x80

unpack\_wds\_SLQSGetRuntimeSettings 0

dhclient -d -v gobi-0-0

CMD : dhclient -d -v gobi-0-0

(2048)type: 1 : dhclient -d -v gobi-0-0

Internet Systems Consortium DHCP Client 4.3.3

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For info, please visit https://www.isc.org/software/dhcp/

Listening on LPF/gobi-0-0/9e:41:3a:93:f5:97

Sending on LPF/gobi-0-0/9e:41:3a:93:f5:97

Sending on Socket/fallback

DHCPREQUEST of 192.168.2.2 on gobi-0-0 to 255.255.255.255 port 67 (xid=0x5182a448)

DHCPACK of 192.168.2.2 from 192.168.2.1

RTNETLINK answers: File exists

bound to 192.168.2.2 -- renewal in 3394 seconds.

8.8.8.0/255.255.255.0 via 192.168.2.1 dev gobi-0-0

########PDN2

root@sierra-Lenovo-G510:/home/sierra/SLQSSDK/SLQS04.00.16\_customer/SampleApps/lite-qmi-demo# ./startdatacall.sh start 2 2 4 0 0 0 testconfig1.txt

g\_ip\_version:4

iNumber:2

========2/2. MUXID:0x81 IPv4===========

========Update EthName gobi-0-1===========

root@sierra-Lenovo-G510:/home/sierra/SLQSSDK/SLQS04.00.16\_customer/SampleApps/lite-qmi-demo# unpack\_wds\_SetMuxID 0

unpack\_wds\_SLQSSetIPFamilyPreference 0

unpack\_wds\_SLQSStartDataSession 0

StartDataSessions id 1226563024

WDS INDICATION from Mux ID : 0x81

unpack\_wds\_SLQSGetRuntimeSettings 0

dhclient -d -v gobi-0-1

CMD : dhclient -d -v gobi-0-1

(2048)type: 1 : dhclient -d -v gobi-0-1

Internet Systems Consortium DHCP Client 4.3.3

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For info, please visit https://www.isc.org/software/dhcp/

Listening on LPF/gobi-0-1/a2:01:b9:ae:b0:a6

Sending on LPF/gobi-0-1/a2:01:b9:ae:b0:a6

Sending on Socket/fallback

DHCPDISCOVER on gobi-0-1 to 255.255.255.255 port 67 interval 3 (xid=0x38167259)

DHCPREQUEST of 192.168.6.2 on gobi-0-1 to 255.255.255.255 port 67 (xid=0x59721638)

DHCPOFFER of 192.168.6.2 from 192.168.6.1

DHCPACK of 192.168.6.2 from 192.168.6.1

bound to 192.168.6.2 -- renewal in 3181 seconds.

8.8.8.0/255.255.255.0 via 192.168.6.1 dev gobi-0-1

########### Console 2

root@sierra-Lenovo-G510:/home/sierra#

root@sierra-Lenovo-G510:/home/sierra# dhclient gobi-0-0

RTNETLINK answers: File exists

root@sierra-Lenovo-G510:/home/sierra# dhclient gobi-0-1

RTNETLINK answers: File exists

root@sierra-Lenovo-G510:/home/sierra# ifconfig gobi-0-0

gobi-0-0 Link encap:Ethernet HWaddr 9e:41:3a:93:f5:97

inet addr:192.168.2.2 Mask:255.255.255.252

inet6 addr: fe80::9c41:3aff:fe93:f597/64 Scope:Link

UP RUNNING NOARP MULTICAST MTU:1500 Metric:1

RX packets:12 errors:0 dropped:0 overruns:0 frame:0

TX packets:9 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:3912 (3.9 KB) TX bytes:2172 (2.1 KB)

root@sierra-Lenovo-G510:/home/sierra# ifconfig gobi-0-1

gobi-0-1 Link encap:Ethernet HWaddr a2:01:b9:ae:b0:a6

inet addr:192.168.6.2 Mask:255.255.255.252

inet6 addr: fe80::a001:b9ff:feae:b0a6/64 Scope:Link

UP RUNNING NOARP MULTICAST MTU:1500 Metric:1

RX packets:6 errors:0 dropped:0 overruns:0 frame:0

TX packets:14 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:1956 (1.9 KB) TX bytes:3832 (3.8 KB)

root@sierra-Lenovo-G510:/home/sierra# ping 192.168.2.1

PING 192.168.2.1 (192.168.2.1) 56(84) bytes of data.

64 bytes from 192.168.2.1: icmp\_seq=1 ttl=64 time=126 ms

64 bytes from 192.168.2.1: icmp\_seq=2 ttl=64 time=24.5 ms

^C

--- 192.168.2.1 ping statistics ---

2 packets transmitted, 2 received, 0% packet loss, time 1001ms

rtt min/avg/max/mdev = 24.585/75.572/126.559/50.987 ms

root@sierra-Lenovo-G510:/home/sierra# ping 192.168.6.1

PING 192.168.6.1 (192.168.6.1) 56(84) bytes of data.

64 bytes from 192.168.6.1: icmp\_seq=1 ttl=64 time=23.3 ms

64 bytes from 192.168.6.1: icmp\_seq=2 ttl=64 time=21.1 ms

^C

--- 192.168.6.1 ping statistics ---

2 packets transmitted, 2 received, 0% packet loss, time 1001ms

rtt min/avg/max/mdev = 21.113/22.211/23.310/1.108 ms

root@sierra-Lenovo-G510:/home/sierra#