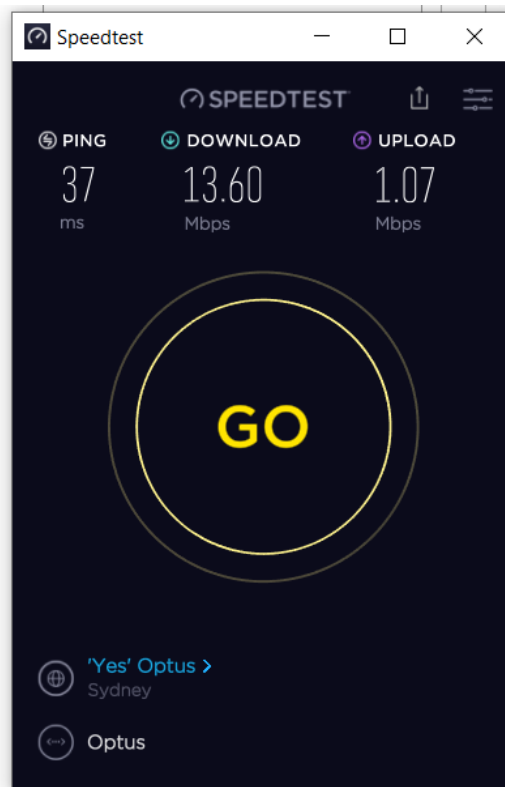


Test#1: 4G – No external antenna (inside the house)

4G Details

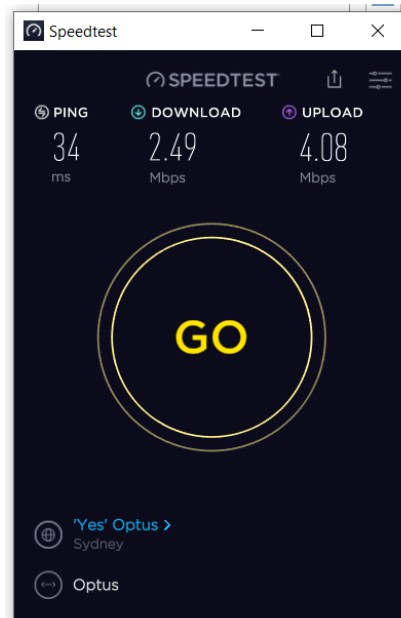
Status	Connected
PS service type	LTE
Network	YES OPTUS
Roaming	Off
RSRP	-111
RSRQ	-13
RS-SINR	0
PLMN	50502
LAC	52507
RAC	0
PSC	-1
Cell ID	20292163
TX Power	22
IP Address	10.50.168.8
Quality	38
Channel UL	18250
Channel Number	250
IMSI	505025701512813
Current radio band	LTE B1
Reject Code	-1
ICCID	8961025716433513741?



Test #2: 4G – No external antenna – (outside the house)

4G Details

Status	Connected
PS service type	LTE
Network	YES OPTUS
Roaming	Off
RSRP	-94
RSRQ	-15
RS-SINR	0
PLMN	50502
LAC	52507
RAC	0
PSC	-1
Cell ID	19469361
TX Power	23
IP Address	10.112.161.142
Quality	57
Channel UL	0
Channel Number	9260
IMSI	505025701512813
Current radio band	Unknown
Reject Code	-1
ICCID	8961025716433513741?



```
C:\Users\stuartm>ping -t 1.1.1.1
```

Pinging 1.1.1.1 with 32 bytes of data:

```
Reply from 1.1.1.1: bytes=32 time=28ms TTL=52
```

```
Reply from 1.1.1.1: bytes=32 time=28ms TTL=52
```

```
Reply from 1.1.1.1: bytes=32 time=29ms TTL=52
```

```
Reply from 1.1.1.1: bytes=32 time=36ms TTL=52
```

```
Reply from 1.1.1.1: bytes=32 time=24ms TTL=52
```

```
Reply from 1.1.1.1: bytes=32 time=32ms TTL=52
```

```
Reply from 1.1.1.1: bytes=32 time=33ms TTL=52
```

```
Reply from 1.1.1.1: bytes=32 time=34ms TTL=52
```

```
Reply from 1.1.1.1: bytes=32 time=30ms TTL=52
```

```
Reply from 1.1.1.1: bytes=32 time=31ms TTL=52
```

```
Reply from 1.1.1.1: bytes=32 time=25ms TTL=52
```

Reply from 1.1.1.1: bytes=32 time=27ms TTL=52
Reply from 1.1.1.1: bytes=32 time=33ms TTL=52
Reply from 1.1.1.1: bytes=32 time=28ms TTL=52
Reply from 1.1.1.1: bytes=32 time=28ms TTL=52
Reply from 1.1.1.1: bytes=32 time=23ms TTL=52
Reply from 1.1.1.1: bytes=32 time=28ms TTL=52
Reply from 1.1.1.1: bytes=32 time=27ms TTL=52
Reply from 1.1.1.1: bytes=32 time=28ms TTL=52
Reply from 1.1.1.1: bytes=32 time=29ms TTL=52

Ping statistics for 1.1.1.1:

Packets: Sent = 20, Received = 20, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 23ms, Maximum = 36ms, Average = 29ms

Test#3: 4G with external antenna (outside the house)

4G Details

Status	Connected
PS service type	LTE
Network	YES OPTUS
Roaming	Off
RSRP	-73
RSRQ	-14
RS-SINR	0
PLMN	50502
LAC	52507
RAC	0
PSC	-1
Cell ID	19469361
TX Power	0
IP Address	10.112.161.142
Quality	77
Channel UL	0
Channel Number	9260
IMSI	505025701512813
Current radio band	Unknown
Reject Code	-1
ICCID	8961025716433513741?

C:\Users\stuartm>ping -t 1.1.1.1

Pinging 1.1.1.1 with 32 bytes of data:

Reply from 1.1.1.1: bytes=32 time=1547ms TTL=52

Request timed out.

Reply from 1.1.1.1: bytes=32 time=1166ms TTL=52

Reply from 1.1.1.1: bytes=32 time=101ms TTL=52

Reply from 1.1.1.1: bytes=32 time=149ms TTL=52

Request timed out.

Reply from 1.1.1.1: bytes=32 time=878ms TTL=52

Reply from 1.1.1.1: bytes=32 time=1580ms TTL=52

Reply from 1.1.1.1: bytes=32 time=1656ms TTL=52

Reply from 1.1.1.1: bytes=32 time=664ms TTL=52

Reply from 1.1.1.1: bytes=32 time=1283ms TTL=52

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Reply from 1.1.1.1: bytes=32 time=2105ms TTL=52

Reply from 1.1.1.1: bytes=32 time=827ms TTL=52

Reply from 1.1.1.1: bytes=32 time=779ms TTL=52

Reply from 1.1.1.1: bytes=32 time=322ms TTL=52

Reply from 1.1.1.1: bytes=32 time=936ms TTL=52

Request timed out.

Reply from 1.1.1.1: bytes=32 time=270ms TTL=52

Request timed out.

Ping statistics for 1.1.1.1:

Packets: Sent = 23, Received = 15, Lost = 8 (34% loss),

Approximate round trip times in milli-seconds:

Minimum = 101ms, Maximum = 2105ms, Average = 950ms