



QUALIFICATION TEST PROCEDURE

PART NUMBER
0313-000-274

IN VEHICLE CREW CONSOLE
DP231

REV A	SH No. 58	PREPD. Shruti B R	DATE 21/01/25
Ver 1.0	No. OF SH 75	APPRD. Athif Allam	DATE

TEST DATA SHEET-1

Name of the Test: Vibration Test

Unit Serial No.: *R0274001*

Date of the Test: *12/02/25*

Processor Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Processor	CPU Detected	OK	
2	CPU manufacturer	Genuine Intel	Genuine Intel	
3	CPU Type	13th Gen Intel(R) Core (TM) i7-1365UE	Intel(R), Core(TM) i7 - 1365UE	
4	CPUID	Family 6, Model 186, Stepping 3	Family 6, Stepping 3	
5	Physical CPU's	1	1	
6	Cores per CPU	10	10	
7	Hyperthreading	Enabled	Enabled	
8	CPU speed	1700.0 MHz	1700.0 MHz	

RAM Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	RAM Test	RAM detected		
2	Total Physical Memory	7718 MB	7709 MB	
3	Memory devices			
3.1	Channel A-D	8192 MB, DDR4, 3200 MT/s	8GB, DDR4, 3200 MT/s	

SSD Storage detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	SSD storage detection	SSD detected		
2	Disk drive:	256GB	232.9 GB	

Ethernet Port 1 Test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	



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QUALIFICATION TEST PROCEDURE

DOC Name
QTP

PART NUMBER
0313-000-274

IN VEHICLE CREW CONSOLE
DP231

REV A	SH No. 59	PREPD. Shruti B R	DATE 21/01/25
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Ethernet Port 2 Test

Ethernet Port 2 is connected to the ethernet switch through backplane internally. Check for the port speed showing 1000Mbps.

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	

Procedure for ping test:

- Connect J2 mating cable to laptop.
- Assign IP address and gateway in network setting as shown above.
- Open the “Open in terminal”.
- Type “ping” in the black box and hit the space bar.
- Type the IP address you’d like to ping (e.g., 10.XXX.X.X).
- Ping reply should be received.

RS422-COM1 Port test:

SI No	Test Name	Specified values	Observed Value	Remarks
1	COM Port	COM Ports detected	OK	
2	Communications Port:	ttyS0	OK	
3	Serial Port: ttyS0	Result: PASS	OK	

USB port test

SI No	Test Name	Specified values	Observed Value	Remarks
1	USB Ports	USB Ports detected	OK	
2	USB Ports	USB x HCI Compliant Host Controller	OK	

Note: The above results are obtained when USB key board or joystick is connected.

Check for the working of Keyboard.

Tested By:

Verified By:

Approved By:

 Rug-Rel Commitment Towards Technology & Quality Excellence	QUALIFICATION TEST PROCEDURE		DOC Name QTP	PART NUMBER 0313-000-274	
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TEST DATA SHEET-2

Name of the Test: Shock Test

Unit Serial No.: R0274001

Date of the Test: 12/02/25

Processor Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Processor	CPU Detected	OK	
2	CPU manufacturer	Genuine Intel	Genuine Intel	
3	CPU Type	13th Gen Intel(R) Core (TM) i7-1365UE	Intel (R), Core(TM) i7 - 1365 UE	
4	CPUID	Family 6, Model 186, Stepping 3	Family 6, Stepping 3	
5	Physical CPU's	1	1	
6	Cores per CPU	10	10	
7	Hyperthreading	Enabled	Enabled	
8	CPU speed	1700.0 MHz	1700.0 MHz	

RAM Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	RAM Test	RAM detected		
2	Total Physical Memory	7718 MB	7709 MB	
3	Memory devices			
3.1	Channel A-D	8192 MB, DDR4, 3200 MT/s	8GB, DDR4, 3200MT/s	

SSD Storage detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	SSD storage detection	SSD detected		
2	Disk drive:	256GB	232.2 GB	

Ethernet Port 1 Test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	



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QUALIFICATION TEST PROCEDURE

DOC Name
QTP**PART NUMBER**

0313-000-274

IN VEHICLE CREW CONSOLE

DP231

REV A
Ver 1.0SH No.
61
No. OF SH
75PREPD.
Shruti B R
APPRD.
Athif AllamDATE
21/01/25
DATE**Ethernet Port 2 Test**

Ethernet Port 2 is connected to the ethernet switch through backplane internally. Check for the port speed showing 1000Mbps.

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	

Procedure for ping test:

- Connect J2 mating cable to laptop.
- Assign IP address and gateway in network setting as shown above.
- Open the "Open in Terminal"
- Type "ping" in the black box and hit the space bar.
- Type the IP address you'd like to ping (e.g., 10.XXX.X.X).
- Ping reply should be received.

RS422-COM1 Port test:

SI No	Test Name	Specified values	Observed Value	Remarks
1	COM Port	COM Ports detected	OK	
2	Communications Port:	ttyS0	OK	
3	Serial Port: ttyS0	Result: PASS	OK	

USB port test

SI No	Test Name	Specified values	Observed Value	Remarks
1	USB Ports	USB Ports detected	OK	
2	USB Ports	USB x HCI Compliant Host Controller	OK	

Note: The above results are obtained when USB key board or joystick is connected.

Check for the working of Keyboard.

Tested By:

Verified By:

Approved By:

Rug-Rel
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QTP**PART NUMBER**
0313-000-274**IN VEHICLE CREW CONSOLE**
DP231

REV A	SH No. 62	PREPD. Shruti B R	DATE 21/01/25
Ver 1.0	No. OF SH 75	APPRD. Athif Allam	DATE

TEST DATA SHEET-3**Name of the Test:** High Temperature Test

Unit Serial No.: R0274001

Date of the Test: 14/02/25

Processor Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Processor	CPU Detected	OK	
2	CPU manufacturer	Genuine Intel	Genuine Intel	
3	CPU Type	13th Gen Intel(R) Core (TM) i7-1365UE	Intel(R), core(TM) i7-1365UE	
4	CPUID	Family 6, Model 186, Stepping 3	Family 6, stepping 3	
5	Physical CPU's	1	1	
6	Cores per CPU	10	10	
7	Hyperthreading	Enabled	Enabled	
8	CPU speed	1700.0 MHz	1700.0 MHz	

RAM Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	RAM Test	RAM detected		
2	Total Physical Memory	7718 MB	7709 MB	
3	Memory devices			
3.1	Channel A-D	8192 MB, DDR4, 3200 MT/s	8GB, DDR4, 3200MT/s	

SSD Storage detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	SSD storage detection	SSD detected		
2	Disk drive:	256GB	232.2 GB	

Ethernet Port 1 Test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	



QUALIFICATION TEST PROCEDURE

DOC
Name
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IN VEHICLE CREW CONSOLE

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Ethernet Port 2 Test

Ethernet Port 2 is connected to the ethernet switch through backplane internally. Check for the port speed showing 1000Mbps.

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	

Procedure for ping test:

- Connect J2 mating cable to laptop.
- Assign IP address and gateway in network setting as shown above.
- Open the “Open in Terminal”
- Type “ping” in the black box and hit the space bar.
- Type the IP address you’d like to ping (e.g., 10.XXX.X.X).
- Ping reply should be received.

RS422-COM1 Port test:

SI No	Test Name	Specified values	Observed Value	Remarks
1	COM Port	COM Ports detected	OK	
2	Communications Port:	ttyS0	OK	
3	Serial Port: ttyS0	Result: PASS	OK	

USB port test

SI No	Test Name	Specified values	Observed Value	Remarks
1	USB Ports	USB Ports detected	OK	
2	USB Ports	USB xHCI Compliant Host Controller	OK	

Note: The above results are obtained when USB key board or joystick is connected.

Check for the working of Keyboard.

Tested By:

Verified By:

Approved By:

 Rug-Rel Commitment towards Technology & Quality Services	QUALIFICATION TEST PROCEDURE	DOC Name QTP	PART NUMBER 0313-000-274	
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TEST DATA SHEET-4

Name of the Test: Damp Heat Test

Unit Serial No.: R0274001

Date of the Test: 15/02/25

Processor Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Processor	CPU Detected	OK	
2	CPU manufacturer	Genuine Intel	Genuine Intel	
3	CPU Type	13th Gen Intel(R) Core (TM) i7-1365UE	Intel(R) Core(TM) i7-1365UE	
4	CPUID	Family 6, Model 186, Stepping 3	Family 6, stepping 3	
5	Physical CPU's	1	1	
6	Cores per CPU	10	10	
7	Hyperthreading	Enabled	Enabled	
8	CPU speed	1700.0 MHz	1700.0 MHz	

RAM Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	RAM Test	RAM detected		
2	Total Physical Memory	7718 MB	7709 MB	
3	Memory devices			
3.1	Channel A-D	8192 MB, DDR4, 3200 MT/s	8GB, DDR4, 3200MT/s	

SSD Storage detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	SSD storage detection	SSD detected		
2	Disk drive:	256GB	232.8 GB	

Ethernet Port 1 Test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	

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Ethernet Port 2 Test

Ethernet Port 2 is connected to the ethernet switch through backplane internally. Check for the port speed showing 1000Mbps.

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	

Procedure for ping test:

- Connect J2 mating cable to laptop.
- Assign IP address and gateway in network setting as shown above.
- Open the "Open in Terminal".
- Type "ping" in the black box and hit the space bar.
- Type the IP address you'd like to ping (e.g., 10.XXX.X.X).
- Ping reply should be received.

RS422-COM1 Port test:

SI No	Test Name	Specified values	Observed Value	Remarks
1	COM Port	COM Ports detected	OK	
2	Communications Port:	ttyS0	OK	
3	Serial Port: ttyS0	Result: PASS	OK	

USB port test

SI No	Test Name	Specified values	Observed Value	Remarks
1	USB Ports	USB Ports detected	OK	
2	USB Ports	USB x HCI Compliant Host Controller	OK	

Note: The above results are obtained when USB key board or joystick is connected.

Check for the working of Keyboard.

Athif K
Tested By:

Verified By:

Approved By:

Rug-Rel
Committed towards Technology & Quality Services**QUALIFICATION TEST PROCEDURE**DOC Name
QTP**PART NUMBER**
0313-000-274**IN VEHICLE CREW CONSOLE**
DP231

REV

A

SH No.

66

PREPD.

Shruti B R

DATE

21/01/25

Ver

1.0

No. OF SH

75

APPRD.

Athif Allam

DATE

TEST DATA SHEET-5**Name of the Test: Low Temperature Test**

Unit Serial No.: R0274001

Date of the Test: 16/02/25

Processor Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Processor	CPU Detected	OK	
2	CPU manufacturer	Genuine Intel		
3	CPU Type	13th Gen Intel(R) Core (TM) i7-1365UE	Genuine Intel Intel(R), core(TM) i7-1365UE	
4	CPUID	Family 6, Model 186, Stepping 3	Family 6, stepping 3	
5	Physical CPU's	1	1	
6	Cores per CPU	10	10	
7	Hyperthreading	Enabled	Enabled	
8	CPU speed	1700.0 MHz	1700.0MHz	

RAM Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	RAM Test	RAM detected		
2	Total Physical Memory	7718 MB	7709 MB	
3	Memory devices			
3.1	Channel A-D	8192 MB, DDR4, 3200 MT/s	8GB, DDR4, 3200MT/s	

SSD Storage detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	SSD storage detection	SSD detected		
2	Disk drive:	256GB	232.2GB	

Ethernet Port 1 Test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	

 Rug-Rel <small>Commitment towards Technology & Quality Services</small>	QUALIFICATION TEST PROCEDURE			DOC Name QTP	PART NUMBER 0313-000-274	
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Ethernet Port 2 Test

Ethernet Port 2 is connected to the ethernet switch through backplane internally. Check for the port speed showing 1000Mbps.

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	

Procedure for ping test:

- Connect J2 mating cable to laptop.
- Assign IP address and gateway in network setting as shown above.
- Open the “Open in Terminal”.
- Type “ping” in the black box and hit the space bar.
- Type the IP address you’d like to ping (e.g., 10.XXX.X.X).
- Ping reply should be received.

RS422-COM1 Port test:

SI No	Test Name	Specified values	Observed Value	Remarks
1	COM Port	COM Ports detected	OK	
2	Communications Port:	ttyS0	OK	
3	Serial Port: ttyS0	Result: PASS	OK	

USB port test

SI No	Test Name	Specified values	Observed Value	Remarks
1	USB Ports	USB Ports detected	OK	
2	USB Ports	USB x HCI Compliant Host Controller	OK	

Note: The above results are obtained when USB key board or joystick is connected.

Check for the working of Keyboard.

Athif
Tested By:

Verified By:

Approved By:

 Rug-Rel Commitment towards Technology & Quality Deviations	QUALIFICATION TEST PROCEDURE	DOC Name QTP	PART NUMBER 0313-000-274
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TEST DATA SHEET-6

Name of the Test: Rapid Temperature Cycling Test

Unit Serial No.: R027U001

Date of the Test: 17/02/25

Processor Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Processor	CPU Detected	OK	
2	CPU manufacturer	Genuine Intel	Genuine Intel	
3	CPU Type	13th Gen Intel(R) Core (TM) i7-1365UE	Intel(R), core(TM) i7 - 1365UE	
4	CPUID	Family 6, Model 186, Stepping 3	Family 6, stepping 3	
5	Physical CPU's	1	1	
6	Cores per CPU	10	10	
7	Hyperthreading	Enabled	Enabled	
8	CPU speed	1700.0 MHz	1700.0 MHz	

RAM Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	RAM Test	RAM detected		
2	Total Physical Memory	7718 MB	7709 MB	
3	Memory devices			
3.1	Channel A-D	8192 MB, DDR4, 3200 MT/s	8GB, DDR4, 3200MT/s	

SSD Storage detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	SSD storage detection	SSD detected		
2	Disk drive:	256GB	232.2 GB	

Ethernet Port 1 Test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	

Rug-Rel
Committed towards Technology & Quality Division**QUALIFICATION TEST PROCEDURE**DOC Name
QTP**PART NUMBER**

0313-000-274

IN VEHICLE CREW CONSOLE
DP231

REV A	SH No. 69	PREPD. Shruti B R	DATE 21/01/25
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Ethernet Port 2 Test

Ethernet Port 2 is connected to the ethernet switch through backplane internally. Check for the port speed showing 1000Mbps.

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	

Procedure for ping test:

- Connect J2 mating cable to laptop.
- Assign IP address and gateway in network setting as shown above.
- Open the “Open in Terminal”
- Type “ping” in the black box and hit the space bar.
- Type the IP address you’d like to ping (e.g., 10.XXX.X.X).
- Ping reply should be received.

RS422-COM1 Port test:

SI No	Test Name	Specified values	Observed Value	Remarks
1	COM Port	COM Ports detected	OK	
2	Communications Port:	ttyS0	OK	
3	Serial Port: ttyS0	Result: PASS	OK	

USB port test

SI No	Test Name	Specified values	Observed Value	Remarks
1	USB Ports	USB Ports detected	OK	
2	USB Ports	USB x HCI Compliant Host Controller	OK	

Note: The above results are obtained when USB key board or joystick is connected.

Check for the working of Keyboard.

Ashwijk
Tested By:

Verified By:

Approved By:

 Rug-Rel <small>Commitment towards Technology & Quality Services</small>	QUALIFICATION TEST PROCEDURE	DOC Name QTP	PART NUMBER 0313-000-274		
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TEST DATA SHEET-7

Name of the Test: Dust Test

Unit Serial No.: **R0274001**

Date of the Test: **10/03/25**

Processor Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Processor	CPU Detected	OK	
2	CPU manufacturer	Genuine Intel	Genuine Intel	
3	CPU Type	13th Gen Intel(R) Core (TM) i7-1365UE	Intel(R), Core(TM) i7-1365UE	
4	CPUID	Family 6, Model 186, Stepping 3	Family 6, stepping 3	
5	Physical CPU's	1	1	
6	Cores per CPU	10	10	
7	Hyperthreading	Enabled	Enabled	
8	CPU speed	1700.0 MHz	1700.0 MHz	

RAM Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	RAM Test	RAM detected		
2	Total Physical Memory	7718 MB	7709 MB	
3	Memory devices			
3.1	Channel A-D	8192 MB, DDR4, 3200 MT/s	8GB, DDR4, 3200MT/s	

SSD Storage detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	SSD storage detection	SSD detected		
2	Disk drive:	256GB	232.2 GB	

Ethernet Port 1 Test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	



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QUALIFICATION TEST PROCEDURE

DOC Name
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IN VEHICLE CREW CONSOLE

DP231

REV
A

SH No.

71

PREPD,

Shruti B R

DATE
21/01/25

Ver

1.0

No. OF SH

75

APPRD,

Athif Allam

DATE

Ethernet Port 2 Test

Ethernet Port 2 is connected to the ethernet switch through backplane internally. Check for the port speed showing 1000Mbps.

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	

Procedure for ping test:

- Connect J2 mating cable to laptop.
- Assign IP address and gateway in network setting as shown above.
- Open the "Open in Terminal".
- Type "ping" in the black box and hit the space bar.
- Type the IP address you'd like to ping (e.g., 10.XXX.X.X).
- Ping reply should be received.

RS422-COM1 Port test:

SI No	Test Name	Specified values	Observed Value	Remarks
1	COM Port	COM Ports detected	OK	
2	Communications Port:	ttyS0	OK	
3	Serial Port: ttyS0	Result: PASS	OK	

USB port test

SI No	Test Name	Specified values	Observed Value	Remarks
1	USB Ports	USB Ports detected	OK	
2	USB Ports	USB x HCI Compliant Host Controller	OK	

Note: The above results are obtained when USB key board or joystick is connected.

Check for the working of Keyboard.

Zauhi J K

Tested By:

Verified By:

Approved By:

 Rug-Rel <small>Committed towards Technology & Quality Excellence</small>	QUALIFICATION TEST PROCEDURE	DOC Name QTP	PART NUMBER 0313-000-274
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TEST DATA SHEET-8

Name of the Test: Tropical Exposure Test

Unit Serial No.: R0274001

Date of the Test: 5/03/25

Processor Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Processor	CPU Detected	OK	
2	CPU manufacturer	Genuine Intel	Genuine Intel	
3	CPU Type	13th Gen Intel(R) Core (TM) i7-1365UE	Intel(R), Core(TM) i7-1365UE	
4	CPUID	Family 6, Model 186, Stepping 3	Family 6, stepping 3	
5	Physical CPU's	1	1	
6	Cores per CPU	10	10	
7	Hyperthreading	Enabled	Enabled	
8	CPU speed	1700.0 MHz	1700.0 MHz	

RAM Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	RAM Test	RAM detected		
2	Total Physical Memory	7718 MB	7709 MB	
3	Memory devices			
3.1	Channel A-D	8192 MB, DDR4, 3200 MT/s	8GB, DDR4, 3200MT/s	

SSD Storage detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	SSD storage detection	SSD detected		
2	Disk drive:	256GB	232.2 GB	

Ethernet Port 1 Test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	

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Ethernet Port 2 Test

Ethernet Port 2 is connected to the ethernet switch through backplane internally. Check for the port speed showing 1000Mbps.

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	

Procedure for ping test:

- Connect J2 mating cable to laptop.
- Assign IP address and gateway in network setting as shown above.
- Open the "Open in Terminal".
- Type "ping" in the black box and hit the space bar.
- Type the IP address you'd like to ping (e.g., 10.XXX.X.X).
- Ping reply should be received.

RS422-COM1 Port test:

SI No	Test Name	Specified values	Observed Value	Remarks
1	COM Port	COM Ports detected	OK	
2	Communications Port:	ttyS0	OK	
3	Serial Port: ttyS0	Result: PASS	OK	

USB port test

SI No	Test Name	Specified values	Observed Value	Remarks
1	USB Ports	USB Ports detected	OK	
2	USB Ports	USB x HCI Compliant Host Controller	OK	

Note: The above results are obtained when USB key board or joystick is connected.

Check for the working of Keyboard.

Kaifiya
Tested By:

Verified By:

Approved By:

 Rug-Rel <small>Commitment towards Technology & Quality Services</small>	QUALIFICATION TEST PROCEDURE		DOC Name QTP	PART NUMBER 0313-000-274
IN VEHICLE CREW CONSOLE DP231	REV A	SH No. 74	PREPD. Shruti B R	DATE 21/01/25
	Ver 1.0	No. OF SH 75	APPRD. Athif Allam	DATE

TEST DATA SHEET-9

Name of the Test: Bump Test

Unit Serial No.: R0274001

Date of the Test: 19/02/25

Processor Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Processor	CPU Detected	OK	
2	CPU manufacturer	Genuine Intel	Genuine Intel	
3	CPU Type	13th Gen Intel(R) Core (TM) i7-1365UE	Intel(R), Core(TM) i7-1365UE	
4	CPUID	Family 6, Model 186, Stepping 3	Family 6, stepping 3	
5	Physical CPU's	1	1	
6	Cores per CPU	10	10	
7	Hyperthreading	Enabled	Enabled	
8	CPU speed	1700.0 MHz	1700.0 MHz	

RAM Detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	RAM Test	RAM detected		
2	Total Physical Memory	7718 MB	7709 MB	
3	Memory devices			
3.1	Channel A-D	8192 MB, DDR4, 3200 MT/s	8GB, DDR4, 3200 MT/s	

SSD Storage detection test

SI No	Test Name	Specified values	Observed Value	Remarks
1	SSD storage detection	SSD detected		
2	Disk drive:	256GB	232.2 GB	

Ethernet Port 1 Test

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	



QUALIFICATION TEST PROCEDURE

DOC Name
QTP

PART NUMBER
0313-000-274

IN VEHICLE CREW CONSOLE

DP231

REV A	SH No. 75	PREPD. Shruti B R	DATE 21/01/25
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Ethernet Port 2 Test

Ethernet Port 2 is connected to the ethernet switch through backplane internally. Check for the port speed showing 1000Mbps.

SI No	Test Name	Specified values	Observed Value	Remarks
1	Ethernet Port	Ethernet Port detected	OK	
2	Network	Intel(R) I210 Gigabit Network Connection	OK	
3	IPv4	Assign any IP address	OK	
4	Speed	1000Mb/s	OK	

Procedure for ping test:

- Connect J2 mating cable to laptop.
- Assign IP address and gateway in network setting as shown above.
- Open the "Open in Terminal".
- Type "ping" in the black box and hit the space bar.
- Type the IP address you'd like to ping (e.g., 10.XXX.X.X).
- Ping reply should be received.

RS422-COM1 port test:

SI No	Test Name	Specified values	Observed Value	Remarks
1	COM Port	COM Ports detected	OK	
2	Communications Port:	ttyS0	OK	
3	Serial Port: ttyS0	Result: PASS	OK	

USB port test

SI No	Test Name	Specified values	Observed Value	Remarks
1	USB Ports	USB Ports detected	OK	
2	USB Ports	USB xHCI Compliant Host Controller	OK	

Note: The above results are obtained when USB key board or joystick is connected.

Check for the working of Keyboard.

Kashif
Tested By:

Verified By:

Approved By: