



# MOOV

Applied Materials Confidential/POWERCHIP SEMICONDUCTOR CORP.

## DCVD SYSTEM SPECIFICATION CENTURA AP POWERCHIP SEMICONDUCTOR CORP.

### System Specification 1

#### System Overview

<u>General Information</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Customer Name	POWERCHIP SEMICONDUCTOR CORP.			
Customer Number				
Fab Name				
Unit Number				
Fab Region				
Forecast or Order	SYSTEM ORDER			
Technology	DCVD			
Platform Type	CENTURA AP			
Project Package Number				
Opportunity Number				
Sales Engineer Name				
Sales Engineer Phone Number				
Sales Engineer Pager Number				
Quote/Sales Order Number				
<u>Device Fabrication Info</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Application	STI-STI			
<u>Wafer Specification</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Wafer Size	300MM (12 INCH)			
Wafer Shape	NOTCH			
<u>Chamber Type/Location</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Position A	(Z7) ULTIMA X HDP-CVD			
Position B	(Z7) ULTIMA X HDP-CVD			
Position C	(Z7) ULTIMA X HDP-CVD			
Position D	EMPTY			
Position A Process	(01) OXIDE - USG			
Position B Process	(01) OXIDE - USG			
Position C Process	(01) OXIDE - USG			
Position D Process	NOT APPLICABLE			

#### DCVD Centura AP System

<u>Sales Information</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>

**(A) - (Z7) ULTIMA X HDP-CVD**

<u>Ultima X Chamber Options</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
IR Diagnostic	NO			
Turbo Pump	STANDARD TMP-3203			
Nozzle Type	1.76 ALN 14 MIL I			
Gas Ring	36 PORT			
Top Baffle	ALN 8CLN 8INJ			
Clean Method	ASTRON RPS			
Process Application	USG STI			
Upper Chamber	STANDARD			

**(B) - (Z7) ULTIMA X HDP-CVD**

<u>Ultima X Chamber Options</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
IR Diagnostic	NO			
Turbo Pump	STANDARD TMP-3203			
Nozzle Type	1.76 ALN 14 MIL I			
Gas Ring	36 PORT			
Top Baffle	ALN 8CLN 8INJ			
Clean Method	ASTRON RPS			
Process Application	USG STI			
Upper Chamber	STANDARD			

**(C) - (Z7) ULTIMA X HDP-CVD**

<u>Ultima X Chamber Options</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
IR Diagnostic	NO			
Turbo Pump	STANDARD TMP-3203			
Nozzle Type	1.76 ALN 14 MIL I			
Gas Ring	36 PORT			
Top Baffle	ALN 8CLN 8INJ			
Clean Method	ASTRON RPS			
Process Application	USG STI			
Upper Chamber	STANDARD			

**Gas Delivery Options**

<u>Gas Panel</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Gas Feed	BOTTOM			
Gas Panel Exhaust	TOP			
MFC Type	AERA PRIMAERA	Part of CENAP-CUSTOM	AERA DN780	
Divert	YES			
Display Gas Pallets	YES			

**A - (Z7) ULTIMA X HDP-CVD PALLET**

<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
USG STI w/ He/ H2	CENAP-CUSTOM	Cat 2B: USG STI w/ He/ H2 GP for IMD	
N2 PURGE			
O2 - 1.0SLM			
<del>H2 - 1.0 SLM</del>	Part of CENAP-CUSTOM	SiF4 - 30 sccm	
He/ Ar - 600SCCM			
SiH4 - 400SCCM			
Ar - 1.0 SLM			
He/ Ar - 600SCCM			
<del>H2 - 1.0 SLM</del>	Part of CENAP-CUSTOM	SiF4 - 400 sccm	

Line 9	SiH4 - 50SCCM			
Line 10	<del>Ar - 50SGGM</del>	Part of CENAP-CUSTOM	Ar - 100 SCCM (DESIGNATED)	
Line 11	NF3 - 400SCCM			
Line 12	NF3 - 3.0SLM			
Line 13 Lower	Ar - 3.0SLM			
Line 13 Upper	N2 PURGE			
<b><u>B - (Z7) ULTIMA X HDP-CVD PALLET</u></b>				
Gas Pallet	<del>USG STI w/ He/H2</del>	Part of CENAP-CUSTOM	USG STI w/ He/ H2	
Line 1	N2 PURGE			
Line 2	O2 - 1.0SLM			
Line 3	<del>H2 - 1.0 SLM</del>	Part of CENAP-CUSTOM	SiF4 - 30 sccm	
Line 4	He/ Ar - 600SCCM			
Line 5	SiH4 - 400SCCM			
Line 6	Ar - 1.0 SLM			
Line 7	He/ Ar - 600SCCM			
Line 8	<del>H2 - 1.0 SLM</del>	Part of CENAP-CUSTOM	SiF4 - 400 sccm	
Line 9	SiH4 - 50SCCM			
Line 10	<del>Ar - 50SGGM</del>	Part of CENAP-CUSTOM	Ar - 100 SCCM(DESIGNATED)	
Line 11	NF3 - 400SCCM			
Line 12	NF3 - 3.0SLM			
Line 13 Lower	Ar - 3.0SLM			
Line 13 Upper	N2 PURGE			
<b><u>C - (Z7) ULTIMA X HDP-CVD PALLET</u></b>				
Gas Pallet	<del>USG STI w/ He/H2</del>	Part of CENAP-CUSTOM	USG STI w/ He/ H2	
Line 1	N2 PURGE			
Line 2	O2 - 1.0SLM			
Line 3	<del>H2 - 1.0 SLM</del>	Part of CENAP-CUSTOM	SiF4 - 30 sccm	
Line 4	He/ Ar - 600SCCM			
Line 5	SiH4 - 400SCCM			
Line 6	Ar - 1.0 SLM			
Line 7	He/ Ar - 600SCCM			
Line 8	<del>H2 - 1.0 SLM</del>	Part of CENAP-CUSTOM	SiF4 - 400 sccm	
Line 9	SiH4 - 50SCCM			
Line 10	<del>Ar - 50SGGM</del>	Part of CENAP-CUSTOM	Ar - 100 SCCM(DESIGNATED)	
Line 11	NF3 - 400SCCM			
Line 12	NF3 - 3.0SLM			
Line 13 Lower	Ar - 3.0SLM			
Line 13 Upper	N2 PURGE			
<b><u>D - EMPTY PALLET</u></b>				
Gas Pallet	NOT APPLICABLE			
Line 1	NOT APPLICABLE			
Line 2	NOT APPLICABLE			
Line 3	NOT APPLICABLE			
Line 4	NOT APPLICABLE			
Line 5	NOT APPLICABLE			
Line 6	NOT APPLICABLE			
Line 7	NOT APPLICABLE			
Line 8	NOT APPLICABLE			
Line 9	NOT APPLICABLE			
Line 10	NOT APPLICABLE			
Line 11	NOT APPLICABLE			
Line 12	NOT APPLICABLE			
Line 13 Lower	NOT APPLICABLE			
Line 13 Upper	NOT APPLICABLE			

## Factory Interface Options

<u>Factory Interface System</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
WIP Delivery Type	OHT WIP DELIVERY			
Number of Load Ports	2 LOAD PORTS			
Atmospheric Robots	KAWASAKI 2 FIXED ROBOTS WITH EDGE GRIP			
Wafer Pass Thru and Storage	8 SLOT WAFER PASS THRU AND STORAGE			
Metrology Unit	NANOMETRICS			
Load Port Types	ENHANCED 25 WAFER FOUNDRY UPPER E84 INTERFACE ENABLED			
E84 Carrier Handoff	OHT			
E84 PIO Sensors and Cables	UPPER E84 SENSORS AND CABLES			
Docked E99 Reading Capability	NO			
E99 Carrier ID	KEYENCE WITH BCR			
OHT Light Curtain	NONE			
Docking Flange Shield	NO			
Load Port Operator Interface	STANDARD			
Operator Access Switch	YES			
Configurable Colored Lights	NO			
Light Towers	4 COLOR CONFIGURABLE LIGHT TOWER			
Ionizing Systems	NONE			
Air Intake Systems	TOP INTAKE			
Remote Control System Capable	NO			

## Remote Options

<u>System Monitors</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Monitor 1	FLAT PANEL WITH KEYBOARD ON STAND			
Monitor 2	REMOTE FLAT PANEL ON STAND			
Monitor 3	NONE			

  

<u>Umbilicals</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Heat Exchanger Hose Length	75 FT			

  

<u>Pumps</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Pump Interface Type	EDWARDS			

  

<u>AC Racks</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Facilities UPS Interface	NO			
Chamber Generator Type	ENI GENERATOR RACK			

## Service Options

<u>System Inspection/Shipping</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Source Inspection	8-HOUR FUNCTIONAL			
ETI Inspection	NO			

  

<u>Warranty/Service</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Standard Warranty	12 MONTH STANDARD WARRANTY			

## Additional Options

<u>Additional Items</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
MAINFRAME FIF KIT				
Robot Maintenance Tool Kit	NO			
Robot Calibration Tool Kit	NO			
FACTORY INTERFACE FIF KIT				

FI Align and Level Tool Kit	NO
Outrigger Leveling Tools	NO
Load Port Service Tool	NO
CHAMBER FIF KIT	
Chamber Calibration Kit	NO
RF Calibration Kit	NO
Wafer Temp Calibration Kit	NO
Atlas Lift FIF	NO
Turbo Pump Removal Tool	NO

<u>Unreleased Option Codes</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Unreleased Option Code 1	NONE			
Unreleased Option Code 2	NONE			
Unreleased Option Code 3	NONE			
Unreleased Option Code 4	NONE			
Unreleased Option Code 5	NONE			

<u>System Spares 1-25</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
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Spares Format: 1234-56789  
 Must be in Item Master and Price Master  
 or export/import to Oracle will fail.

Spares 1 Number	0190-11972
Spares 1 Description	HOUSING
Spares 1 Quantity	1
Spares 2 Number	0040-04504
Spares 2 Description	SIDE COIL
Spares 2 Quantity	1
Spares 3 Number	0240-42478
Spares 3 Description	SLIT VALVE ACTUATOR
Spares 3 Quantity	1
Spares 4 Number	0200-04184
Spares 4 Description	Nozzle, ALN 1.76" 14 mil
Spares 4 Quantity	36
Spares 5 Number	0020-18899
Spares 5 Description	Washer
Spares 5 Quantity	36
Spares 26 to 50	NO

## NSR Summary

### New NSRs

Status	CES#	NSR#	Description	Qty	Loc./Folder	Worksheet	Item
ACCEPTED	CENAP-CUSTOM		Cat 2B: USG STI w/ He/ H2 GP for IMD	1	Gas Delivery Options	A - (Z7) ULTIMA X HDP-CVD PALLET	Gas Pallet

### Associated NSRs

CES#	NSR#	Description	Qty	Loc./Folder	Worksheet	Item
CENAP-CUSTOM		Cat 2B: USG STI w/ He/ H2 GP for IMD	1	Gas Delivery Options	A - (Z7) ULTIMA X HDP-CVD PALLET	Gas Pallet
		AERA DN780		Gas Delivery Options	Gas Panel	MFC Type
		SiF4 - 30 sccm		Gas Delivery Options	A - (Z7) ULTIMA X HDP-CVD PALLET	Line 3
		SiF4 - 400 sccm		Gas Delivery Options	A - (Z7) ULTIMA X HDP-CVD PALLET	Line 8

Ar - 100 SCCM (DESIGNATED)	Gas Delivery Options	A - (Z7) ULTIMA X HDP-CVD PALLET	Line 10
USG ST1 w/ He/ H2	Gas Delivery Options	B - (Z7) ULTIMA X HDP-CVD PALLET	Gas Pallet
SiF4 - 30 sccm	Gas Delivery Options	B - (Z7) ULTIMA X HDP-CVD PALLET	Line 3
SiF4 - 400 sccm	Gas Delivery Options	B - (Z7) ULTIMA X HDP-CVD PALLET	Line 8
Ar - 100 SCCM(DESIGNATED)	Gas Delivery Options	B - (Z7) ULTIMA X HDP-CVD PALLET	Line 10
USG ST1 w/ He/ H2	Gas Delivery Options	C - (Z7) ULTIMA X HDP-CVD PALLET	Gas Pallet
SiF4 - 30 sccm	Gas Delivery Options	C - (Z7) ULTIMA X HDP-CVD PALLET	Line 3
SiF4 - 400 sccm	Gas Delivery Options	C - (Z7) ULTIMA X HDP-CVD PALLET	Line 8
Ar - 100 SCCM(DESIGNATED)	Gas Delivery Options	C - (Z7) ULTIMA X HDP-CVD PALLET	Line 10

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