



# MOOV

Applied Materials Confidential

## DCVD SYSTEM SPECIFICATION CENTURA AP

### System Specification 1

#### System Overview

##### General Information

Customer Name  
Customer Number  
Fab Name  
Unit Number  
Fab Region  
Forecast or Order  
Technology  
Platform Type  
Project Package Number  
Opportunity Number  
Sales Engineer Name  
Sales Engineer Phone Number  
Sales Engineer Pager Number  
Business Mgr Id  
Quote/Sales Order Number

##### **Selected Option**

SYSTEM ORDER  
DCVD  
CENTURA AP

Part# or  
NSR#

Part or NSR Description

Note #

##### **Device Fabrication Info**

Device Fabrication  
Device Step  
Device Fabrication Detail  
Product Name

##### **Selected Option**

AI IC  
IMD Deposition (gap fill)  
OXIDE-USG  
Centura Ultima AP USG HDP-CVD

Part# or  
NSR#

Part or NSR Description

Note #

Application

AI IC-IMD

##### **Wafer Specification**

Wafer Size  
Wafer Shape

##### **Selected Option**

300MM (12 INCH)  
NOTCH

Part# or  
NSR#

Part or NSR Description

Note #

##### **Chamber Type/Location**

Position A  
Position B  
Position C  
Position D

##### **Selected Option**

(Z7) ULTIMA X HDP-CVD  
(Z7) ULTIMA X HDP-CVD  
(Z7) ULTIMA X HDP-CVD  
EMPTY

Part# or  
NSR#

Part or NSR Description

Note #

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>
Product Delivery Team Contact	Jennifer			
Customer Process Spec (CPS) #				
Customer Application	IMD-HDP			
Special Test Requirement				
Previous PST Specs or SO Numbers				

**Customer Fab Options**

<u>Customer Fab Options</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
NO SELECTABLE OPTIONS				

**(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	HYDROGEN TMP-XH3603			
Nozzle Type	1.76 ALN 14 MIL N			
Gas Ring	36 PORT			
Top Baffle	ALN 8CLN 8INJ			
Upper Chamber	ENHANCED			
Process Application	NON USG STI			
Process Kit	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	HYDROGEN TMP-XH3603			
Nozzle Type	1.76 ALN 14 MIL N			
Gas Ring	36 PORT			
Top Baffle	ALN 8CLN 8INJ			
Upper Chamber	ENHANCED			
Process Application	NON USG STI			
Process Kit	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	HYDROGEN TMP-XH3603			
Nozzle Type	1.76 ALN 14 MIL N			
Gas Ring	36 PORT			
Top Baffle	ALN 8CLN 8INJ			
Upper Chamber	ENHANCED			
Process Application	NON USG STI			
Process Kit	STANDARD			

**(D) - EMPTY**

<u>Empty Chamber</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
NO SELECTABLE OPTIONS				

## 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 DN780			
Divert	NO		Divert YES	
Gas Panel Door	STANDARD			
WARNING: Hiding gas pallets forces standard pallet selections				
Display Gas Pallets	YES			
<u>A - (Z7) ULTIMA X HDP-CVD PALLET</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Gas Pallet	USG ST1 w/ He/ H2			
Line 1	N2 PURGE			
Line 2	O2 - 1.0SLM			
Line 3	H2 - 1.0 SLM			
Line 4	He/ Ar - 600SCCM			
Line 5	SiH4 - 400SCCM			
Line 6	Ar - 1.0 SLM			
Line 7	He/ Ar - 600SCCM			
Line 8	H2 - 1.0 SLM			
Line 9	SiH4 - 50SCCM			
Line 10	Ar - 100SCCM			
Line 11	NF3 - 400SCCM			
Line 12	NF3 - 3.0SLM			
Line 13 Lower	Ar - 3.0SLM			
Line 13 Upper	N2 PURGE			
<u>B - (Z7) ULTIMA X HDP-CVD PALLET</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Gas Pallet	USG ST1 w/ He/ H2			
Line 1	N2 PURGE			
Line 2	O2 - 1.0SLM			
Line 3	H2 - 1.0 SLM			
Line 4	He/ Ar - 600SCCM			
Line 5	SiH4 - 400SCCM			
Line 6	Ar - 1.0 SLM			
Line 7	He/ Ar - 600SCCM			
Line 8	H2 - 1.0 SLM			
Line 9	SiH4 - 50SCCM			
Line 10	Ar - 100SCCM			
Line 11	NF3 - 400SCCM			
Line 12	NF3 - 3.0SLM			
Line 13 Lower	Ar - 3.0SLM			
Line 13 Upper	N2 PURGE			
<u>C - (Z7) ULTIMA X HDP-CVD PALLET</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Gas Pallet	USG ST1 w/ He/ H2			
Line 1	N2 PURGE			
Line 2	O2 - 1.0SLM			
Line 3	H2 - 1.0 SLM			
Line 4	He/ Ar - 600SCCM			
Line 5	SiH4 - 400SCCM			
Line 6	Ar - 1.0 SLM			
Line 7	He/ Ar - 600SCCM			
Line 8	H2 - 1.0 SLM			
Line 9	SiH4 - 50SCCM			
Line 10	Ar - 100SCCM			
Line 11	NF3 - 400SCCM			
Line 12	NF3 - 3.0SLM			
Line 13 Lower	Ar - 3.0SLM			
Line 13 Upper	N2 PURGE			

<u>D - EMPTY PALLET</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
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			

### Mainframe Options

<u>Process Chamber Isolation</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
CHAMBER A ISOLATION				
Slit Valves Group Elastomers	AP G67P ELASTOMER			
CHAMBER B ISOLATION				
Slit Valves Group Elastomers	AP G67P ELASTOMER			
CHAMBER C ISOLATION				
Slit Valves Group Elastomers	AP G67P ELASTOMER			
CHAMBER D ISOLATION				
Slit Valves Group Elastomers	NOT APPLICABLE			

<u>Mainframe Options</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
NO SELECTABLE OPTIONS				

### 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 9 LIGHT			
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			
Fast Data Gateway Software	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>
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Monitor 1  
 Monitor 2  
 Monitor 3

FLAT PANEL WITH KEYBOARD ON  
 STAND  
 REMOTE FLAT PANEL ON STAND  
 NONE

<u>Heat Exchanger</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Heat Exchanger Type	SMC			

<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>HAPS Abatement</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
HAPS Scrubber	NONE			

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<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 Chamber Generator Type	NO 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 ETI Inspection	8-HOUR FUNCTIONAL 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			
Reduced Comp Gate Align Tool	NO			
FACTORY INTERFACE FIF KIT				
FI Align and Level Tool Kit	NO			
Outrigger Leveling Tools	NO			
Load Port Service Tool	NO			

SERVICE TOOLS

Controller Recovery Tools NO  
 Robot Teach Tools NONE

CHAMBER FIF KIT  
 Chamber Calibration Kit NO  
 RF Calibration Kit NO  
 Wafer Temp Calibration Kit NO  
 Atlas Lift FIF 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>
Spares Format: 1234-56789				

Spares 1 Number	1400-00393			
Spares 1 Description	SNSRPWR RF, 1.5-2.2MHZ, 0.1-10KW, QC-CO			
Spares 1 Quantity	1			
Spares 2 Number	1400-00394			
Spares 2 Description	SNSRPWR RF, 12-15MHZ, 0.1-10KW, QC-CONN			
Spares 2 Quantity	1			
Spares 3 Number	1040-01137			
Spares 3 Description	METER WATT RF 10KW 100KHZ-2.5KHZ			
Spares 3 Quantity	1			
Spares 4 Number	1400-01199			
Spares 4 Description	SNSRPWR RF 1.5-32MHZ 10KW QC-CONN			
Spares 4 Quantity	1			
Spares 5 Number	0270-00291			
Spares 5 Description	WRENCH NOZZLE TORQUE INSTALLATION TOOL			
Spares 5 Quantity	2			
Spares 6 Number	0190-22201			
Spares 6 Description	GENERATOR, RF PLASMA, ENI 2MHZ / 11 KWAT			
Spares 6 Quantity	1			
Spares 26 to 50	NO			

## NSR Summary

### New NSRs

Status	CES#	NSR#	Description	Qty	Loc./Folder	Worksheet	Item
ACCEPTED	0220-49954	671264-2	Powerchip: Divert Lwr Ch AP CIPs	1			
ACCEPTED	CENAP-02CUST	671266-0	Divert YES	1	Gas Delivery Options	Gas Panel	Divert
ACCEPTED	CENAP-CUSTOM	690196-2	Additional Ship Kit Material (AP CIP)	1			
ACCEPTED	CENAP-CUSTOM	690805-0	Powerchip FT Simulation	1			

ACCEPTED

CENAP-  
CUSTOM

692790-0

Roughing Valve Replacement 1