

e3511 features and configuration

True downstream mw plasma process uses a heated platen with temp up to 300 deg for extreme low damage Photoresist removal or light etch

Process assisted with 1KW heat lamp for better uniformity/ashrate
Solid State lamp controller eliminates calibration requirement

Embedded Intel® Atom PC with Slice type I/O modules attached to the PC
Optional quad core Intel® Atom PC
Flash drive data storage and USB for recipes/data
Easy to see 17" touchscreen
IDX software with Secs/Gem

Power supply system with DC-DC power supplies for clean power

Wafer cooling station with touch wafer sensor, works with substrates, glass etc.

Advanced Hine Hatm-5 pick and place robot

Gerling GL139 1.2kw microwave generator

Mititoyo 3 stub mw tuning

6 pole mw applicator

Automatic photoemission end-point detection

Three MFC's configured as:

Gas1 4L O2

Gas2 500 sccm N2 or N2O

Gas3 2L N2 or N2/4%H2

Control and software system offered as an upgrade to any Gasonics L3500 series tool

Embedded PC Technical data

Processor	Processor: Intel® Atom™ E3815, single-core, 1.46 GHz clock frequency (TC3:40) optional Processor: Intel® Atom™ E3845, quad-core, 1.91 GHz
Flash memory	CFast card
Internal main memory	2 GB RAM (internal, not extendable)
Persistent memory	1-second UPS integrated (1MB on CFast card)
Interfaces	2 x RJ 45, 10/100/1000 MBit/s, DVI-I, 4 x USB 2.0, 1x option interface

Diagnostic LEDs	1 x power, 1 x TC status, 1 x flash access, 2 x bus status
Clock	Internal clock with battery backup for time and date (battery replaceable)
Operating system	Microsoft Windows Embedded Standard 7 P
Control software	TwinCAT2 PLC runtime or TwinCAT2 NC PTP runtime
Power supply	24 V DC (-15 %/+20 %)
Power supply	I/O terminals 2 A
Max. power loss	10 W (including system interfaces)
Dielectric strength	500 V _{eff} (supply/internal electronics)
Dimensions (W x H x D)	123 mm x 100 mm x 91 mm
Weight	approx. 975 g
Operating/storage temperature	-25 °C ... +60 °C / -40 °C ... +85 °C
Relative humidity	95 % no condensation
Vibration/shock resistant	Conforms to EN 60068-2-6 / EN 60068-2-27
EMC immunity/emission	Conforms to EN 61000-6-2 / EN 61000-6-4
Protection class	IP 20
Approvals	CE
TC3 performance class	performance (40)