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Press Release

SolderStar Out SMART with Reflow Oven Data at APEX Expo 2016

Stand 2112

SolderStar, a world leading specialist manufacturer in the design and development of thermal profiling equipment for the electronics industry, is to preview the very latest in internet based technology at APEX Expo 2016. Enabling 'big data' capture from reflow ovens for intelligent manufacturing requirements, the company will demonstrate the advances they have made in this field, as well as 'Industry 4.0' projects and trials.

Solderstar's SMARTLine is a state-of-the-art data capture system that builds upon the company's range of real-time process monitoring instruments and sensors. The new interfaces provide the network link and software for streaming of live process data from the ovens on the production floor. The system is scalable and provides all the tools today to allow 'big data' capture from single test/evaluations lines to full smart factories scenarios.

The system was developed to work with the Industry 4.0 / Internet Of Manufacturing concept, a principle where machines are connected through intelligent networks that can control each other autonomously to create a SMART factory.

Mark Stansfield, managing director at SolderStar said: "The revolution of the Industry 4.0 concept will change the face of the manufacturing process and will be very prevalent in those industries using soldering processes, for example electronics manufacturing.

"An Industry 4.0 factory captures information, across the whole manufacturing process so condition monitoring and fault diagnosis can be detected easily and a longer term goal of self-predicting algorithms can be used to foresee problems before they occur. This provides a company with the ability to understand and have more of an insight into its manufacturing status. This SMART manufacturing method aims to reduce down-time and has huge monetary implications in some situations.

"Modern communication technologies and Cloud based computing is helping the Industry 4.0 revolution to become a reality. The need for increased productivity, quality and flexibility is becoming essential to stay competitive in all manufacturing sectors. The SolderStar SMARTLine system ensures that monitoring of the thermal processing equipment will not be left behind and can adapt to this new technological wave.

“Our pioneering Automatic Profiling System (APS), a full time system for profiling each and every PCB soldered in a convection reflow oven, is already monitoring process conditions in real time via an array of special sensors mounted within the oven, so we are well placed to work with customers to produce data from the soldering ovens via standardized methods.”

SolderStar SMARTLine satisfies the main need today, of ‘Big Data’ capture from the soldering processes with measurement sensors and interface modules that communicates via IP networks providing data from the SMT line. The system also provides tools for analysis of the captured data using web based methods via desktop or mobile platforms. These tools provide an immediate insight into the performance of the process, providing engineers with an invaluable insight into the manufacturing environment.

The system architecture uses a layered approach and is built upon existing and widely used protocols and formats. As Industry 4.0 standards develop further, it will be a simple step to integrate the data feeds into customer systems with built in support for a number of exchange formats such as XML, JSON and AMQP, with plans to embrace emerging concepts such as Open Manufacturing Language (OML).

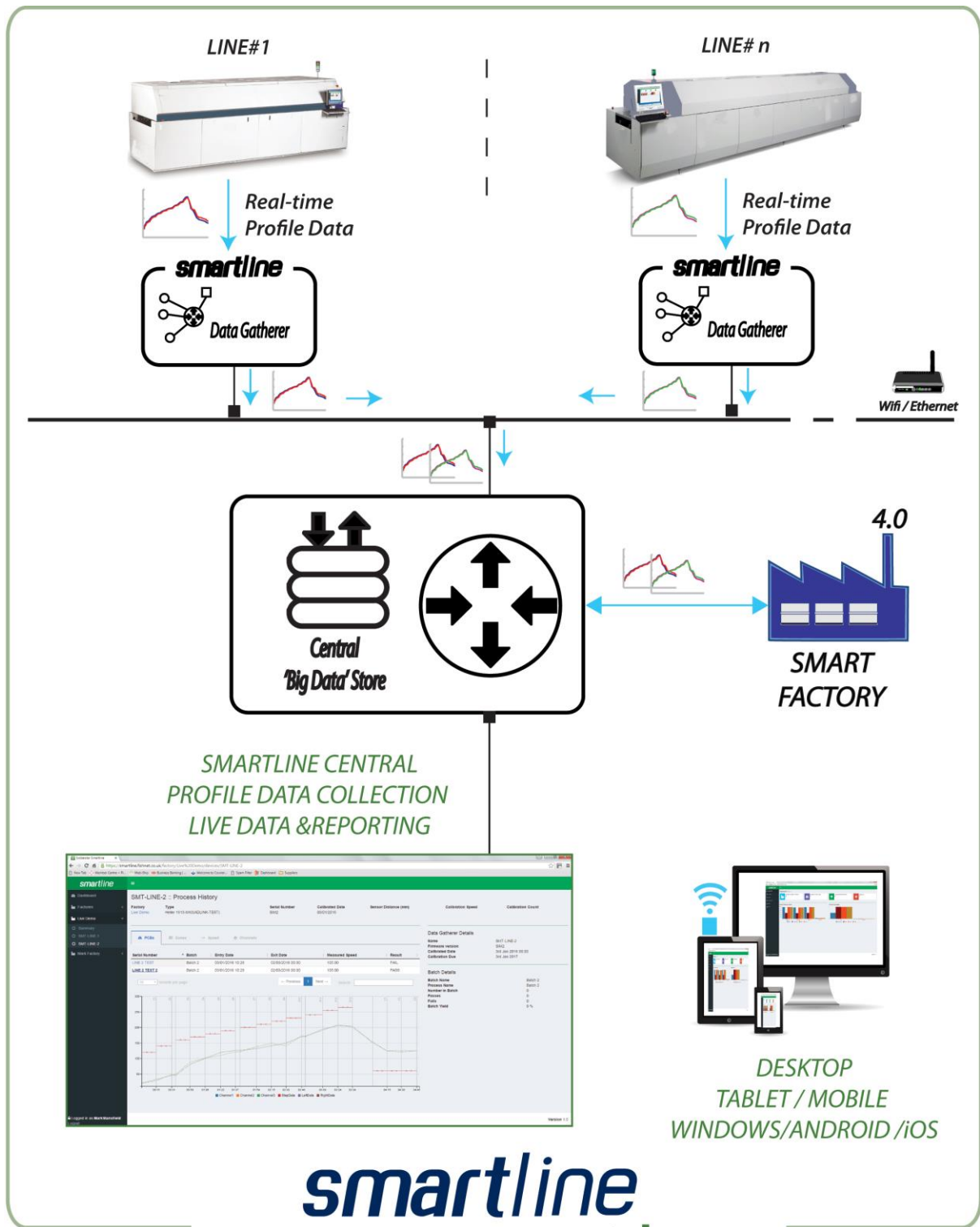
SolderStar will be previewing the system at APEX from March 13-15 2016, Stand 2112, with a demonstrable system showing the new SMARTLine product and its Big Data communication capabilities, including how this can be analyzed using web based techniques.

www.solderstar.com

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