

OFFERED SERVICES

DEVELOPMENT AND DESIGN

- design of analog, digital and hybrid modules, devices and systems
- design of printed circuit boards
- firmware development
- software development (Windows)

PROTOTYPING

- building prototypes of devices, designed per customer request
- prototype testing
- preparation of technological documentation and data for serial production

TECHNOLOGICAL PROCESSES AND OPERATIONS

- automated or manual application of solder paste
- manual loading of TH components
- automated or manual placement of SMD components
- manual soldering of TH components - Lead or Lead-free
- wave soldering of TH components - Lead only
- automated infrared reflow soldering of SMD components - Lead or Lead-free
- automated convection reflow soldering of SMD components - Lead or Lead-free
- cable assemblies

TESTING

- visual and optical inspection
- electrical and logical module testing
- functional module testing

SUPPLY

- materials for PCB
- electronic components
- technological materials

EXPORT

- to countries within the European Union
- to countries outside the European Union



www.largonet.net

ABOUT US

Largonet Ltd. has been founded in year 2005 r. The company is purely manufacturing oriented and up to year 2016 has been working exclusively with foreign clients. We produce unique hi-tech hardware-software products, based on our own specific know-how. Our product list includes more than 120 standard products entirely developed by us. For all these years we have had more than 2300 clients from 60 countries all over the World.

Largonet Ltd. also develops and produces specialized solutions per client request/assignment, including full engineering and manufacturing.

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In year 2016 our company applied for and successfully realized an project under EU Operational Program "Innovations and Competition Abilities" with subject "Increasing Manufacturing Capacity and Implementing New Services in Largonet Ltd. by Introducing New Production Line for Assembly of Printed Circuit Boards".

The projects' goal was realizing one of long-term targets of our company: taking place on Bulgarian market and expanding our positions on European market for design and manufacturing of electronic modules.

MANUFACTURING EQUIPMENT



PICK & PLACE MACHINE TWS, MODEL QUADRA EVO

- works with packages TSOP, TNT, PLCC, QFP, BGA2025 (45x45mm), BGA, LCC, etc.
- placement work space: 440 x 360mm, expandable to 550 x 420mm
- minimal component package size: from 0201 to 50x50mm
- typical performance: 3300 cp./h, maximal: 4400 cp./h
- placement accuracy: $\pm 100\mu\text{m}$
- two-nozzle placement head
- up to 120 tape (8mm) feeders
- 6 pneumatic stick feeders
- double-sided assembly
- automatic T/P dispenser for solder paste or glue

STENCIL PRINTER TWS, MODEL SR2700

- two independent motorized self-levelling squeegees with pneumatic pressure control
- motorized stencil snap-off
- maximal printing area: 480 x 420mm
- accepts framed and non-framed stencils
- board thickness between 0.9mm and 8mm
- camera assisted stencil centering (2 cameras)
- magnetic and vacuum panel fixation systems



REFLOW OVEN TWS, MODEL QV1385

- heating tunnel of length 2m with combined chain&mesh conveyor
- 4 heating and 1 cooling zones
- maximal panel/board width: 400mm
- embedded standard thermal profiles for Lead and Lead-free soldering
- support of user-defined thermal profiles
- controlled conveyor speed

WAVE SOLDERING MACHINE IEMME, MODEL ARIES 300 C

- acceptable panel size: between 50 x 50mm and 300 x 400mm
- variable inclination angle
- automatic flux application before soldering
- IR zone for pre-heating with regulated temperature
- digital (PID) control of pot and pre-heater temperatures
- manual and automatic control
- variable conveyor speed: 0-200mm/min
- regulated wave height

