

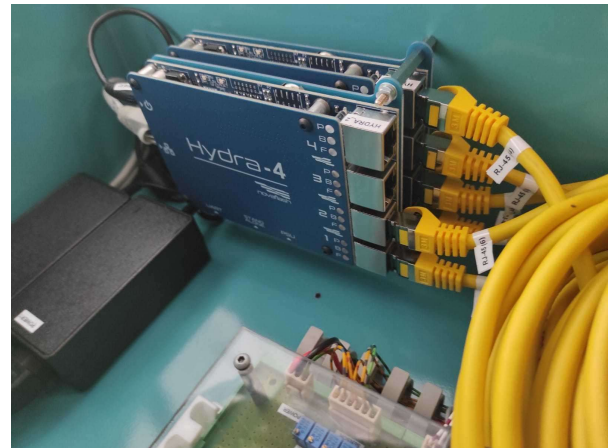
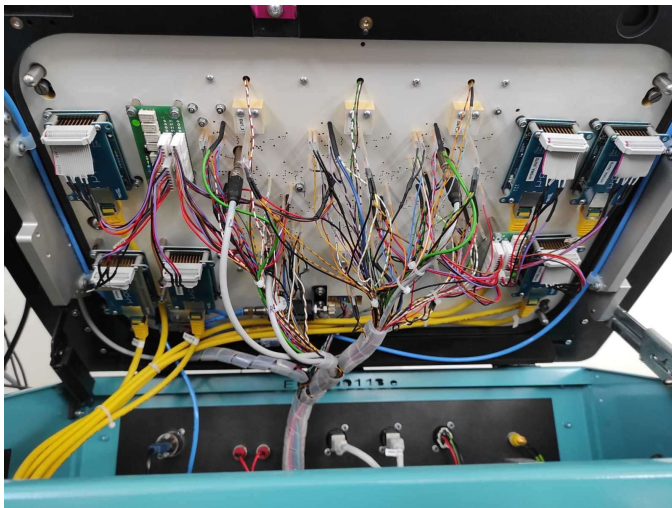
HYDRA SOLVES THE NEEDS OF AUTOMOTIVE APPLICATIONS

2DTD00006 REV1



Problem:

The system in use must program 6 MCUs simultaneously with 2 different firmware depending on the type of boards loaded and is based on a single channel programmer; the test station integrates 3 programmers, so that the DUTs can be programmed in two steps. The total programming time of the panel is 90s (45s for each group of 3 PCBAs).



Objective:

Replace the previous solution with a new system that drastically reduces programming time and offers the robustness and reliability of a product designed for industrial use. Ensure maximum flexibility in system configuration from both a hardware and software perspective.

Solution:

The panels to be programmed were composed of 6 PCBAs, 3 for the right and 3 for the left side of the cars where they were to be installed.

It was decided to use 2 Hydra systems capable of programming 6 Renesas R5F113GK simultaneously through UART 1 wire protocol, the programming interface that allows the use of the least possible number of electrical lines while guaranteeing the best programming times. Hydra's ease of integration made it possible to make the change from the old programming system while interrupting the normal operation of the production line for a particularly short time.



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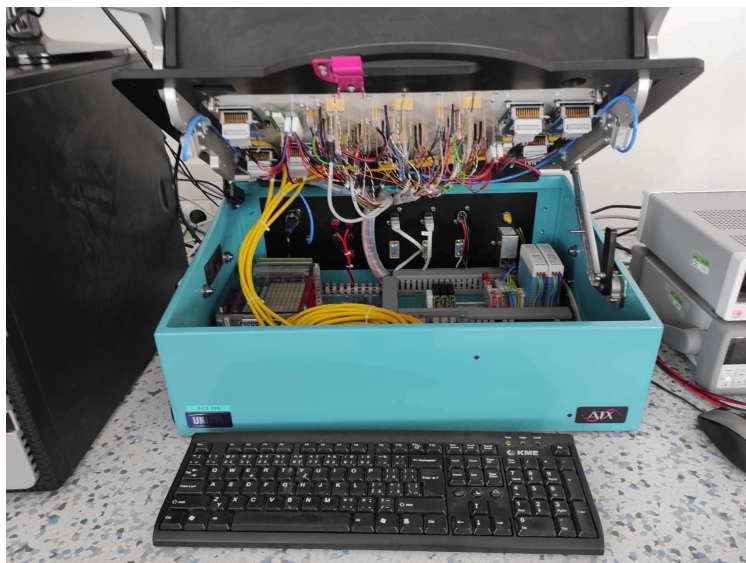
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Thanks to Hydra use, the resulting programming times for 6 R5F113GK programmed in parallel are of 12s that, compared to the performance obtained with the previous used tool (90s), correspond to a reduction of the total programming times of 86.6%.

Ordering Information:

6HM200001: Hydra-2

6HM400001: Hydra-4



About UNITES Systems a.s.



Designed to test

UNITES Systems a.s. is a private company located in the Czech Republic, Valašské Meziříčí with extensive experience in development and production of dedicated test and measurement systems – ATE solutions for semiconductor devices and FCT/ICT platforms for assembled PCB testing (PCBA) since 1991. Currently having 54 employees – 29 R&D, 10 Production, 15 Administration, Sales & Management. UNITES Systems a.s. guarantees full technical support, life-cycle service, regular on-site calibrations, HW & SW upgrades, customized applications development, etc. UNITES Systems a.s. has been certified for ISO 9001.

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About IMT Technologies & Solutions s.r.o.

IMT has been dealing with inspection and testing ever since it was founded in 2012. IMT key areas of specialization are electronics, wire harness and mechatronics. IMT designs and builds testing and assembly lines and robotic workplaces. Thanks to the increased demand for automation, inspection and testing IMT more than doubled in the past three year and currently employ around 60 people.

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