# highstreet
# Hardware Development
## Service Flyer

**OVERVIEW**

With its network of telecommunications professionals, highstreet technologies has the capability to rapidly develop various kinds of hardware. Printed circuit boards, adapters, and other mechatronics together with the necessary software drivers can be delivered on request.

The highstreet Hardware Development Service focuses on rapid prototyping, development environments, test automation, and service tools rather than on commercial products.
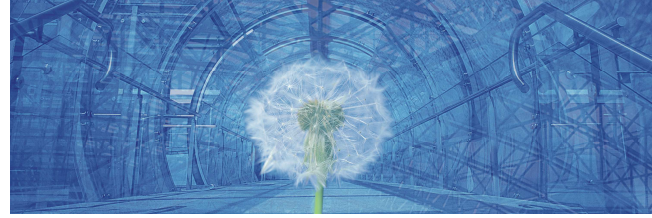
## SCOPE

Sometimes, telecommunications equipment manufacturers need pieces of hardware at very short notice. Just then the own development resources may be working to full capacity. The highstreet Hardware Development Service is the solution in such a critical situation. With their flexibility and technical experience highstreet technologies' hardware experts are able to provide various kinds of hardware for rapid prototyping, development environments, test automation, or field service in record time.

## PRODUCTS

highstreet technologies develops printed circuit boards, adapters, or any other kind of mechatronics. Analogue and digital electronics as well as microprocessor systems are among its core competences. Together with its manufacturing partners highstreet technologies is able to deliver the requested hardware in short time and various lot. Corresponding software drivers can be provided for integration into the customer's environment.
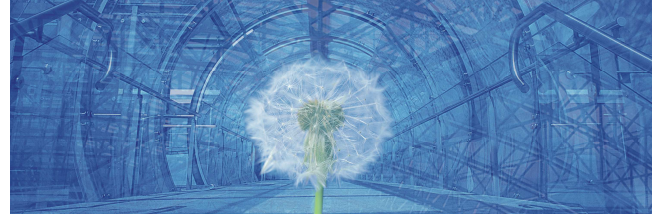
The figure below shows the highstreet ML605 Interface Adapter as an example of highstreet technologies' hardware products.
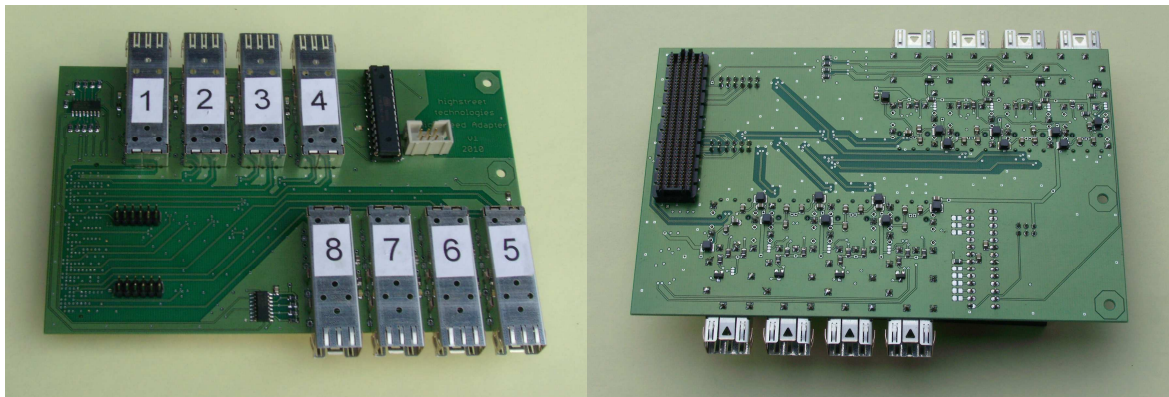


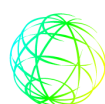**highstreet ML605 Interface Adapter (front and rear view)**

## TECHNOLOGIES AND TOOLS

The hardware designers of highstreet technologies are always at the leading edge of technological evolution. They master ATCA and MicroATCA, stripline and microstrip technologies. Printed circuit boards and mechatronics are designed respecting EMC. The layout and all manufacturing data of the PCBs are produced with EAGLE. Analogue, digital, and mixed mode circuitry is simulated with Spice. All designs are optimized for testability, e.g. by enabling boundary scan. Of course, if the customer wishes the use of any other technologies or tools the experts of highstreet technologies are flexible enough to apply them as requested.

**SUMMARY**

| highstreet Hardware Development Service | |
|---|---|
| Scope | Rapid Prototyping<br>Development Environments<br>Test Automation<br>Service Tools |
| Products | Printed Circuit Boards<br>Adapters<br>Mechatronics<br>Corresponding Software Drivers |
| Technologies and Tools | Design of analogue, digital, and mixed mode circuitry<br>ATCA, MicroATCA<br>CLPD and FPGA development with VHDL<br>Software and hardware co-design<br>EMC-aware design of PCBs and mechatronics<br>Microstrip and stripline technology<br>Design for testability (e.g. boundary scan)<br>CAD with EAGLE<br>Circuit simulation with Spice |