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New Generation Software-defined Modular Instrument Platform

EVERACQ technologies company has expanded its modular design approach to the fields of FPGA development, drivers and software design, introducing a new generation of software-defined modular instrument platform—the μ XI(micro eXtensions for Instrumentation) platform. The platform features a logic reconfigurable synchronous timing controller which integrates CPU and FPGA. By implementing triggering and synchronous timing technologies on FPGA chips, the controller achieves distributed high-precision time synchronization, enabling sub-nanosecond level precise clock synchronization across long-distance modules. The platform incorporates an IPMI intelligent management system, which enhances system reliability through intelligent monitoring. Moreover, the robustness, modularity, and Eurocard mechanical packaging characteristics of the chassis meet the mechanical and electrical specifications required for testing, measurement, and data acquisition applications. This platform technology can be applied in the fields of test and measurement, instrumentation, and industrial control

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