

# Cloud Enabled PLC + HMI and Gateway for Industry 4.0 on Altera Cyclone V SoC

Exor JMSoC is an embedded platform for PLC, HMI, Gateway and Cloud implemented on an Altera Cyclone V SoC. This versatile platform enables future-proof development of Industry 4.0 ready PLCs for smart management of plant and machinery, with secure high-performance full interoperability with other PLCs and enterprise systems to ensure automatic linkage of workflows inside and outside the plant to create a fully automated production process.

## Applications:

- PLC
- Servo Drives
- Industrial Robotics
- HMI
- Industrial Gateway
- Fieldbus I/O
- Industry 4.0
- Smart Energy Systems
- Building Automation Server
- Mobile industrial controller



## Devices and Operating System:

- Operating System: Linux 3.8 RTOS (OSADL)
- SOM : microSOM US02B based on Altera CV SoC
- Exor JMSoC Linux runtime including Security IP by Barco Silex.
- CODESYS PLC and SoftMotion Linux runtime with EtherCAT master
- HMI application: Exor JMobile with FPGA Video Controller
- Other PLCs: B&R X20CPx58x / ABB PM583 / Wago 750-354
- Touch Panels: Exor 600 family
- Servo Drives: Parker TDP-M Triple axis servo drivers and motors
- Communication: EtherCAT/TCP-IP/OPC-UA industrial M2M protocol



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