



NET

HANDLE LARGE-SCALE IOT INFRASTRUCTURE WITH FPGAS AT THE NETWORK EDGE

BUSINESS CONTEXT

The number of predicted future IoT devices and the data generated by them is exceeding the capabilities of current data center infrastructures. IoT data streams must be processed on-the-fly before arriving in a centralized system.

APPLICATION AREAS

- IoT, Industry 4.0, e.g. smart factories, security & emergencies, smart homes, smart cities, smart environment, smart agriculture, eHealth

XELERA NET MAIN FEATURES AND VALUE CONTRIBUTION

- Fast compression and decompression for reduced bandwidth requirements
- Fast encryption and decryption for secure transmissions
- Seamless integration of IoT edge devices

BENEFITS

- Faster data processing using FPGAs allows a larger number of IoT edge devices per server, saving electric power and costs

SYSTEM REQUIREMENTS

- Xelera Suite

X E L E R A
PREDICT

X E L E R A
SUITE

X E L E R A
ANALYTICS

X E L E R A
DB

X E L E R A
NET

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