

Data Sheet

FUJITSU IoT Solution INTELLIEDGE™ A700 Appliance

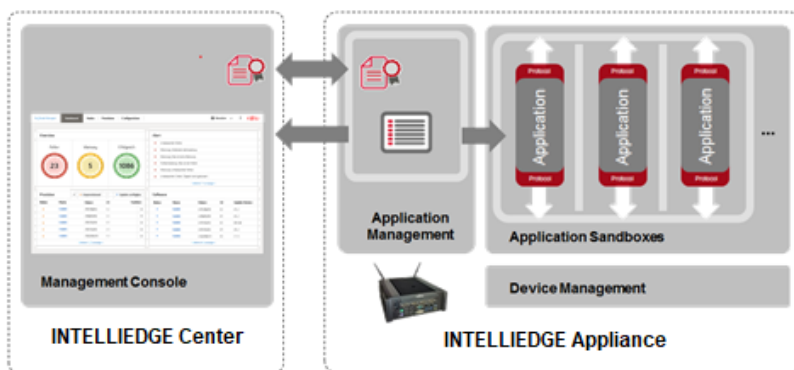
Connect your OT and IT systems through industrial-grade hardware and leading software solutions bundled in an Edge Computing Appliance to leverage the power of enterprise data using Advanced Analytics, Machine Learning (ML) and Artificial Intelligence (AI).

OT and IT Convergence

The FUJITSU IoT Solution INTELLIEDGE A700 Appliance offers a scalable platform for a wide range of edge computing applications in the Industry 4.0 and IIoT context. This typically ranges from simple gateway functionality to fog computing scenarios that employ Artificial Intelligence (AI) and Machine Learning (ML) to make use of the data that gets generated at the edge of the enterprise.

The INTELLIEDGE A700 Appliance provides a robust industrial grade hardware platform and a software stack for device management, application deployment and management, secure multi-tenant setups and disaster recovery.

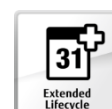
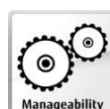
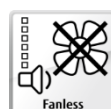
Customers can leverage pre-configured virtualized and/or containerized applications enabling turnkey setups to connect existing OT equipment to IT systems and the cloud with ease. Software configurations can be rolled out to multiple appliances at once.



Stay secure with FUJITSU Datacenter Technology

The appliance utilizes a virtualization approach ensuring full separation between applications running on the system. One major benefit of this approach is near-zero disruptions and at the same time providing a safe and secure environment.

The disaster recovery mechanism is integrated with the system BIOS and ensures authentic OS recovery for various disaster scenarios.



Software Features

Features

Connectivity & protocols, data flow (application blueprints)

- MQTT, AMQP
- Modbus, OPC-UA
- Profibus*, Profinet*
- Fujitsu K5, Azure, AWS*
- Dataflow tool

Security

- Intrusion detection
- Secure boot (BIOS)
- Application and network separation

Software Recovery

- Automated software disaster recovery based on Fujitsu BIOS

OS & device management

- Device status and health
- OS / security updates

Application management

- Certificate based pairing concept
- Management through OPC-UA
- Graphical application management (INTELLIEDGE Center)
- Network management

In-band System Management

- via INTELLIEDGE Center

Applications and AI/ML

- Application VMs and/or containers
- Pre-optimized containers for AI/ML platforms, hardware acceleration*

*Realization on project request. For more information, please contact your sales representative.

Components

Base unit	INTELLIEDGE A700 APPLIANCE
Operating systems	
Operating system pre-installed	Lightweight CentOS Linux with virtualization layer, Virtual Machines and Containers support
Operating system compatible	CentOS Linux
Operating system notes	Other operating systems can be installed within the Virtual Machines
Processor	Intel® Core™ i7-6700TE Processor (2.40 GHz up to 3.40 GHz, 8 MB, Intel® HD-Graphics 530)
Memory modules	16 GB DDR4, 2400 MHz, SO DIMM (2 modules)
Hard disk drives (internal)	512 GB, SSD SATA III, 2.5-inch
Hard disk notes	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software. For 24/7 operation High Endurance Drives recommended
Interface add on cards/components (optional)	
WLAN (optional)	Intel® Dual Band Wireless-AC8260 (802.11ac with integrated Bluetooth 4.2) (includes antennas and mini PCIe to M.2 Adapter Board D3436-S) Import and usage according to country-specific regulations.
Others (optional)	3G/4G*, Lora*, Zigbee*, EtherCAT*

*Realization on project request. For more information, please contact your sales representative.

Base unit

Base unit	INTELLIEDGE A700 APPLIANCE (S26361-K1608-V100)
Mainboard	
Mainboard type	D3433-S2
Formfactor	Mini-ITX
Chipset	Intel® Q170 Express Chipset
Processor socket	LGA1151
Processor quantity maximum	1
Processor maximum TDP	35 W
Supported capacity RAM (min.)	8 GB (1 module)
Supported capacity RAM (max.)	32 GB (2 modules)
Memory slots and type	2 SO DIMM Socket (1.2V) DDR4 - 2133 (CL15) / 2400 (CL17) SDRAM, unbuffered, non-ECC Effective memory speed depends on installed processor
Graphics	Intel® HD Graphics, DX12, Embedded Display Port (2 lanes supported) 1x DVI-D, 2 x DisplayPort V1.2
BIOS features	BIOS Flash EPROM update by software Recovery BIOS, Unified Extensible Firmware Interface (UEFI), Quick Boot, Logo Boot, Quiet Boot, Wake on time from S5, BIOS integrated HW Diagnostic Tool, Watchdog Support, Dynamic TDP adjustment
LAN	Intel i219LM & i210AT with 10/100/1000 MBit/s, iAMT 11 / vPro Support, Wake-on-LAN (WoL), PXE Support, Teaming Support
Audio	Realtek ALC671, 5.1-channel, High Definition Audio Codec
I/O controller	
Serial (RS232)	1
Serial configurable (RS232, RS485 or RS422)	4
Interfaces	
USB 2.0	4
USB 3.0	4
DVI-D	1
Display Port V1.2	2
Ethernet (RJ-45)	2
Serial total	5
Audio in / out	1 / 1
Mouse / Keyboard (PS/2)	1 / 1

Drives	
2.5-inch	1
M.2-2242 onboard	1
Dimensions / Weight / Environmental	
Dimensions (W x D x H)	299 x 244 x 93 mm 11.77 x 9.61 x 3.66 inch
Operating position(s)	Horizontal, vertical (I/O ports facing down)
Weight	5.45 kg 12.00 lbs
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	0 - 50° C (temperatures from 35° - 50° require additional airflow, otherwise system performance will be dynamically reduced as of the performance/temperature ratio in the customer application)
Operating relative humidity	5 - 85 % (relative humidity)
IP Rating	IP50 (with additional port covers)
Electrical Values	
Power efficiency note	Power supply efficiency (at 230V; 10% / 20% / 50% / 100% load): 84% / 87% / 90% / 87%
Rated voltage range	100 V - 240 V (AC Input)
Rated frequency range	50 Hz - 60 Hz
Operating voltage range	90 V - 264 V
Operating line frequency range	47 Hz - 63 Hz
Power supply	Integrated, AC Input 100-240V
Compliance	
Product	INTELLIEDGE A700 Appliance
Model	IEC1
Europe	CE
USA/Canada	FCC Class B cTUVus
Global	RoHS (EU & China) WEEE (Waste electrical and electronic equipment)
China	CCC (on project request)
Compliance link	https://sp.ts.fujitsu.com/sites/certificates
Security	
Physical Security	Kensington Lock support Intrusion switch
System and BIOS Security	Embedded security (TPM 2.0) Boot sector virus protection Write protect option for the Flash EPROM
User Security	User and supervisor BIOS password Hard disk password

Manageability

Manageability technology INTELLIEDGE Center with In-Band Management technology

Miscellaneous

Thermal management
 Low Power Active Mode
 Fanless design
 Extended lifetime

Warranty

Warranty period 3 years (depending on country)

Warranty type Bring-in Service
 Collect & Return Service (depending on country)
 Onsite Service (for countries within region EMEA, for all other countries depending on local regulations)

Warranty Terms & Conditions <http://support.ts.fujitsu.com/warranty>

Product Related Services - the perfect extension

Recommended Service X - 9x5, Onsite Response Time: Next Business Day

Spare Parts availability 5 years after end of product life

Service Weblink <http://www.fujitsu.com/fts/services/support>

More Information

Fujitsu products, solutions & services

Products

In addition to the FUJITSU IoT Solution INTELLIEDGE G700 Gateway, Fujitsu offers a full portfolio of other computing products.

Computing products

- Storage systems: ETERNUS
- Server: PRIMERGY, PRIMEQUEST, Fujitsu SPARC M10, BS2000/OSD Mainframe
- Client Computing Devices: LIFEBOOK, STYLISTIC, ESPRIMO, FUTRO, CELSIUS
- Peripherals: Fujitsu Displays, Accessories
- Software
- Network

Product Support Services with different service levels agreements are recommended to safeguard each product and ensure smooth IT operation.

Solutions

The Fujitsu solutions combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships. Fujitsu's Solutions include parts of one or more activity groups (e.g., planning, implementation, support, management, and training services) and are designed to solve a specific business need.

Infrastructure Solutions are customer offerings created by bringing Fujitsu's best products, services and technologies together with those from partners to deliver benefit to our customers' businesses.

Industry Solutions are tailored to meet the needs of specific verticals.

Business and Technology Solutions provide a variety of technologies developed to tackle specific business issues such as security and sustainability, across many verticals.

Services

Several customizable Fujitsu Service offerings ensure that IT makes a real difference and delivers true business value. We do this by leveraging our extensive experience in managing large, complex, transformational IT programs to help clients in planning, delivering and operating IT services in a challenging and changing business environment.

Application Services support the development, integration, testing, deployment and on-going management of both custom developed and packaged applications. The services focus on delivering business and productivity improvements for organizations.

Business Services respond to the challenge of planning, delivering and operating IT in a complex and changing IT environment.

Managed Infrastructure Services enable customers to deliver the optimal IT environment to meet their needs – achieving high levels of IT service quality and performance for data center and end user environments.

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at: www.fujitsu.com/global/about/environment/



More information

Learn more about Fujitsu, please contact your Fujitsu sales representative, Fujitsu business partner, or visit our website. fujitsu.com/fts/INTELLIEDGE

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2018-05-07 CE-EN

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