Smarter field device configuration in non-Ex zones

Configure field devices faster and more intuitively using Field Xpert SMT50B

Field Xpert SMT50B

The Field Xpert SMT50B is an industrial tablet designed for fast, intuitive configuration of all field devices in non-hazardous (non-Ex) areas. Slim, rugged, and easy to carry, it supports service technicians with a fully equipped Windows-based mobile workstation, eliminating the need for multiple tools in the field.

Delivered ready to use out of the box, the Field Xpert SMT50B provides pre-installed device drivers, direct access to the Netilion IIoT ecosystem, and comprehensive life-cycle documentation—helping reduce time and cost per device across its entire life cycle.

Benefits
at a glance

Mobile service technicians embrace the fast connection to field devices for carrying and the direct access to the market's largest device driver library. This makes device configuration easy and hassle-free.

Fast and reliable tablet
Easy device configuration thanks to high-performance technology

All-in-one tool
Configuration of all types of field devices thanks to 4,000+ device driver library and support of all common protocols

Fit for the field
Suitable for harsh, non-hazardous environments thanks to its touch display and rugged design (IP66)

Smart connection
Perfect match with the Netilion IIoT ecosystem allowing you to access data, share files, and store documents

Windows operating system
Direct access to your usual work environment

Designed for mobile workflows
handy size and weight, practical accessories, dual hot-swappable battery

Technical data

Field Xpert SMT50B

Specifications

Display	• Size: 10.1" • Glove touch • Anti-glare • Pen support
Processor	• Intel Core i5-1240U vPro Graphics: Intel Iris Xe Graphics Memory: 16 GB (2 × 8 GB) LPDDR5
Storage	512 GB M.2 2230 PCIe NVMe SSD, Class 35
Camera	Front 8 MP IR/RGB; Rear 11 MP, flash, mic
Wireless	Intel Wi-Fi 7E AX211 (2×2, 802.11ax, MU-MIMO) with Bluetooth® 5.3; 5G optional
Battery	Dual 2-cell 18 Wh hot-swappable batteries
Operating System	Windows 11 LTSC
Top Expansion Port	vPro-enabled 1 Gb RJ45 network port
Power Adapter	65 W USB Type-C, EcoDesign
Weight	1.04 kg

Connectivity

Possible connection methods

- Point-to-point via USB or Bluetooth® modem
- Network access via gateways, remote I/Os, and multiplexers
- Wireless communication via WLAN and Bluetooth® to Endress+Hauser and (via FieldPort SWA50) to 3rd-party devices

Recommended accessories for communication

- Commubox FXA195 – HART
- Commubox FXA291 – CDI
- FieldPort SFP50 – HART / PROFIBUS / FOUNDATION
- FieldPort SFP20 – IO-Link

The Field Xpert SMT50B provides one-click connectivity and supports all key communication technologies used in process automation.

Supported communication protocols

- HART
- PROFIBUS DP/PA
- FOUNDATION Fieldbus
- PROFINET
- IO-Link
- Modbus
- CDI
- Endress+Hauser service interfaces (incl. firmware flashing)

This makes the SMT50B the fastest way to configure any field device, supporting both fieldbus protocols and Endress+Hauser service protocols.

Typical network architecture, from the field up to the Netilion Services
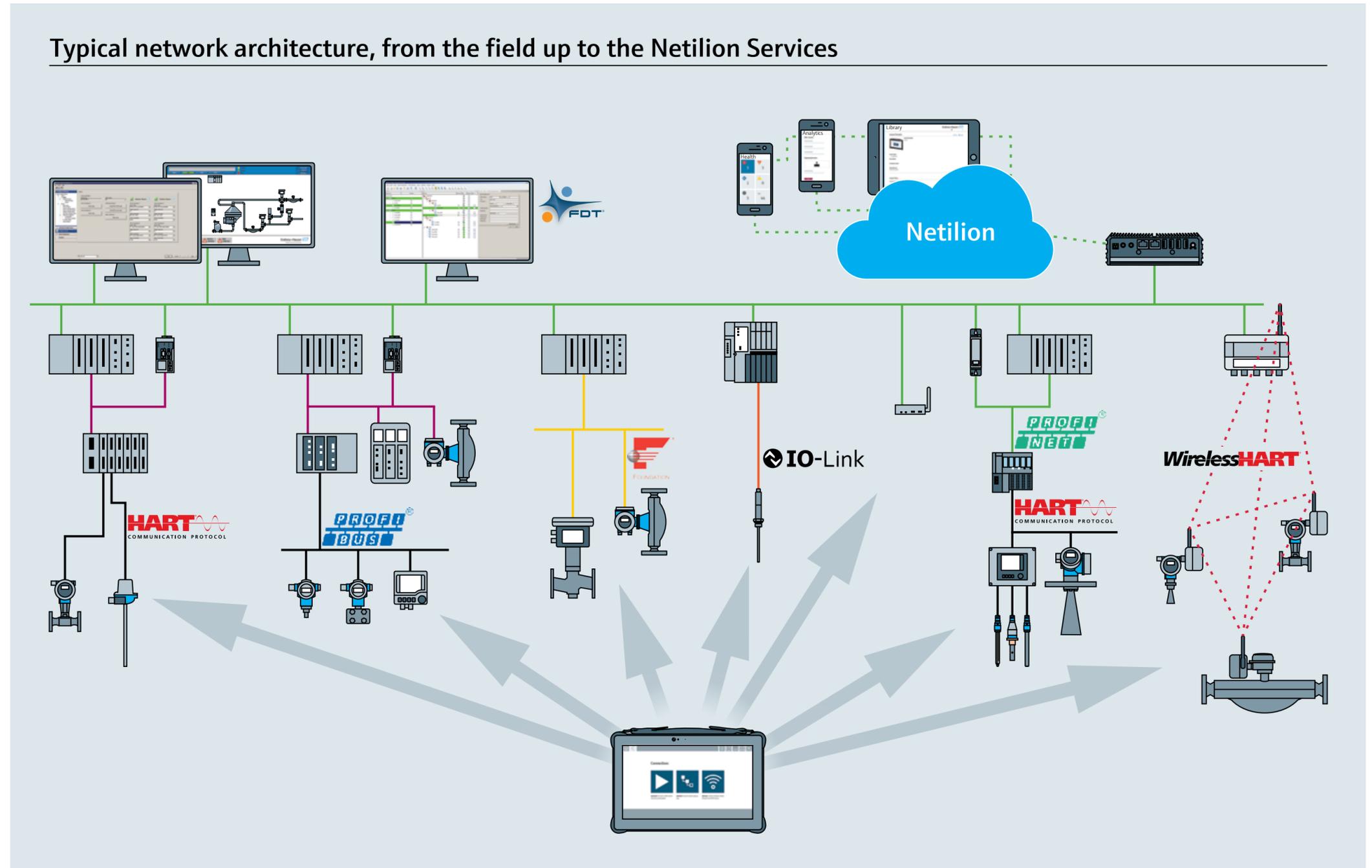
Industry focus

The Field Xpert SMT50B is designed to support commissioning and maintenance tasks across a variety of industries where mobility, speed, and connectivity are essential. Its rugged IP66 design, comprehensive protocol support, and seamless integration with the Netilion IIoT ecosystem help technicians work efficiently in non-hazardous areas. Whether in water treatment plants, food production environments, or large industrial facilities, the Field Xpert SMT50B enables fast device configuration, reliable wireless access, and easy documentation tailored to modern service workflows.

Water & Wastewater

Service technicians in Water & Wastewater facilities operate across large, distributed infrastructures where many devices are located in remote or difficult-to-reach areas. The Field Xpert SMT50B supports these demanding environments with its rugged IP66 protection and wireless Fast-moving process environments in Food & Beverage production require intuitive, reliable tools that can withstand hygienic and wash-down areas. With its sealed IP66 design and rapid configuration capabilities for

IO-Link and other protocols, the SMT50B helps maintenance teams reduce downtime and speed up commissioning tasks. Integrated documentation tools and Netilion connectivity ensure that all interventions remain traceable and audit-ready, supporting strict quality and compliance requirements. connectivity options. It enables fast commissioning and maintenance of field devices, even in wet or outdoor conditions, and allows teams to document their work instantly via Netilion for improved traceability and compliance.

Food & Beverage

Fast-moving process environments in Food & Beverage production require intuitive, reliable tools that can withstand hygienic and wash-down areas. With its sealed IP66 design and rapid configuration capabilities for IO-Link and other protocols, the Field Xpert SMT50B helps maintenance teams reduce downtime and speed up commissioning tasks.

Integrated documentation tools and Netilion connectivity ensure that all interventions remain traceable and audit-ready, supporting strict quality and compliance requirements.

Other industries

In industries such as Mining, Minerals & Metals, Power & Energy, or Chemical production (non-Ex zones), the SMT50B offers a cost-effective alternative to high-end Ex-certified tablets. It delivers fast performance, a full Windows environment, and broad protocol coverage for areas that require reliable device configuration without additional explosion-proof requirements. This makes the SMT50B ideal for targeted maintenance tasks where mobility and efficiency matter, but Ex-certification is not needed.

Accessories

Overview

A range of dedicated accessories enhances mobility, safety, and user comfort when working with the Field Xpert SMT50B. Each accessory is designed to support technicians throughout their daily tasks — from hands-free operation in the field to seamless connectivity at the workstation. This allows service teams to stay productive, organized, and ready for any commissioning or maintenance activity.

Passive pen
Natural and efficient writing and drawing experience, even in the harshest environments

Magnetic mount
Mount your tablet instantly to any metal surface with a powerful VESA magnetic backplate built for tough conditions

Rigid handle
Attaches simply and securely, with easy removal when necessary

Rotating hand strap
Secure the tablet on around your hand for ultimate mobility

Docking station
Connect to your office working enivronment

Shoulder strap
Carry your tablet on your shoulder comfortably whether your are heading out into the field or to your next meeting

Dual bay battery charger
Keep your batteries fully charged with the dual bay battery charger

Detachable keyboard
Increase your productivity in any environment with an IP-66 rated keyboard that is completely sealed off from the elements

Discover more about Field Xpert SMT50B

For detailed product information, documentation, and driver updates, visit our product page.

Visit us on social media