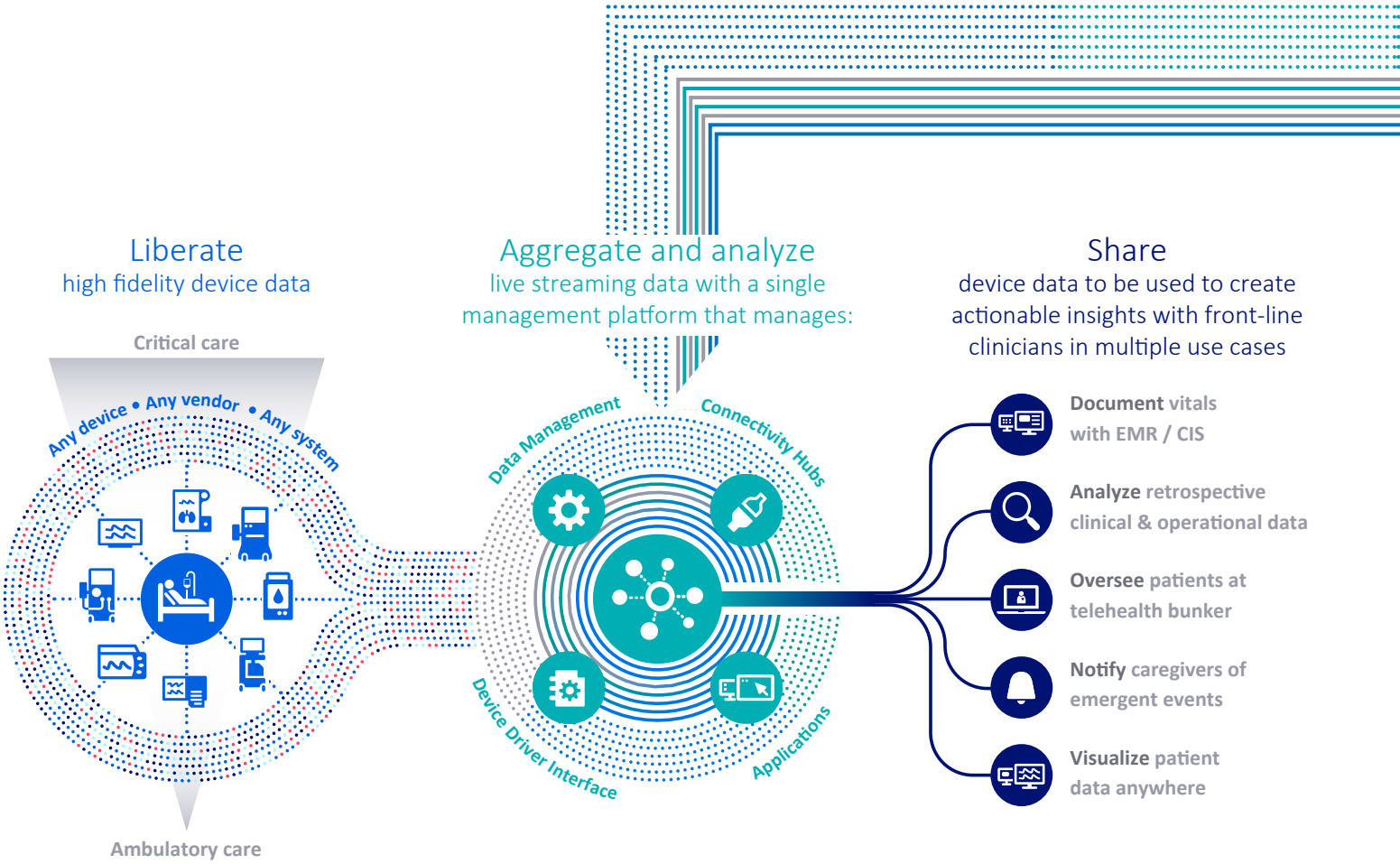
PHILIPS

Product brochure

Connectivity Hubs

Powerful, flexible, and secure medical device integration

Medical device integration to optimize workflows



To meet the growing demand for comprehensive, high-fidelity, live-streaming data, hospitals and health systems need a strong and flexible information infrastructure. Philips' vendor-neutral Philips Medical Device Integration (MDI) advances connectivity beyond the EMR, sharing data with various destination systems to power display, documentation, clinical surveillance, intelligent decision making and research.

The Philips Medical Device Integration (MDI) solution is a suite of products and services designed to eliminate obstacles such as device-specific connectivity protocols, security challenges across the organization, and slow adoption of industry-wide, standards-based interoperability. This results in the simplification of complex workflows by making medical device data available to destination systems for documenting, reporting, analyzing and, ultimately, making critical decisions.

Connectivity Hubs

Connectivity Hubs offer physical connectivity and computing power directly at the point of care

Philips Connectivity Hubs have a hardware and software component that provide physical connectivity and computing power at the point of care. Multiple medical device data output types are supported, including serial, USB, network, and even gateway. Having a portfolio of connectivity hubs allows you to select the best-fit option for integrating medical devices across the continuum of care to meet the needs and requirements of healthcare providers. With various connectivity hub choices available, our customers can seamlessly integrate a wide range of medical devices, regardless of their interfaces and communication protocols. Connectivity Hubs enable healthcare providers to streamline their operations and focus on delivering optimal patient care. Benefit from effortless integration, enhanced connectivity, remote configuration, and software updates with our diverse range of connectivity hub options designed to empower healthcare professionals and with a goal to improve patient outcomes.

Connectivity Hubs

Philips Axon

A robust and cost-effective serial-to-network bridge with multiple serial port options and a low profile, ideal for crowded environments like the OR and ICU.




Axon 120

Support for connecting one (1) serial medical device to the hospital network by ethernet or wi-fi

Axon 420

Support for connecting four (4) serial medical devices to the hospital network by ethernet or wi-fi

Axon 421

Support for connecting four (4) serial medical devices to the hospital network by ethernet only

Axon 820

Support for connecting eight (8) serial medical devices to the hospital network by ethernet or wi-fi

A flexible solution to meet your needs

- Available in one, four, or eight port configurations to meet a wide range of use cases.
- Enables both stationary and mobile care through support for both wired and wireless network connections.
- Compact design for easy deployment in crowded environments.
- Easy and simple hardware deployment.
- Power over ethernet for a single cable power and network connection.
- Plug-and-play medical device integration.
- Reliable connectivity and data integration.
- Enables the integration of device data into the hospital EMR and other downstream systems.
- Provides continuous data feeds for patient surveillance in care areas with limited space.
- Expands access to data-driven interventions and precision care protocols across the hospital.

IntelliBridge EC10

The IntelliBridge EC10 module consolidates data from bedside devices to display on IntelliVue patient monitors and transmit to clinical and hospital information systems.

To simplify patient data acquisition, IntelliBridge EC10 interface collects real-time medical device data at the point of care. The medical device data is displayed on Philips IntelliVue patient monitors and can be forwarded to central monitoring, nurse paging, and documentation systems.


- Collects physiologic parameters, waveforms, device settings, and alarm data.
- 510K certified due to monitor connectivity.
- Ability to connect one (1) device per EC10 with support of up to 3 total EC10s per monitor at the point of care.

Connectivity Hubs

Philips Capsule Neuron 3

The Philips Capsule Neuron 3 is an integrated platform designed for any care environment offering market-leading capabilities, which include secure capture of medical device data, user friendly touchscreen with local data processing and caching, secure point of care rapid authentication and patient association, and secure delivery of encrypted data to the Philips Capsule Medical Device Information Platform.

Neuron 3

A total of 2 serial ports — used for Chart Xpress or Vitals Stream when the Neuron is mounted on the device

Neuron 3 with 7S connectivity module

A total of 9 serial ports — 7 in the front, 2 in the back

Neuron 3 4S2U connectivity module

A total of 8 ports — 4 serial and 2 USB in the front, 2 serial ports in the back

Neuron 3 4S2E connectivity module

A total of 8 ports — 4 serial and 2 ethernet in the front, 2 serial ports in the back

Easy to use, positive impact on patient safety

- Intuitive, high resolution touch screen display for easy data viewing and management.
- Secure patient identification and association at the bedside.
- Reliable encryption for data protection and secure transfer.

Security-focused

- Secure wi-fi connectivity to your hospital network.
- Encrypt data-in-motion directly at the bedside.
- USB ports compatible with USB locking systems for added security.

Supports multiple clinical workflows

- Supports various clinical workflows, including critical care, non-critical care, transport, and mobile settings.
- Available in four configurations to accommodate different medical device connectors, including a compact configuration for mobile workflows.
- Ability to connect up to nine devices.
- Integration with spot check monitors to automate vital sign capture and documentation through Chart Xpress.
- Data caching feature prevents loss during network or power outage or transport.
- Backup battery provides up to 7.5 hours of autonomy during a power interruption.
- Flexible mounting options: wall mount, on top of devices, carts, and roll stands.

Applications

Specialized applications for Philips Capsule Neuron 3

Optimize workflows with two specialized applications —Vital Stream and Chart Xpress on the Neuron.

Vitals Stream

The Philips Capsule Vitals Stream is a versatile solution designed for operating rooms (ORs) and critical care areas, providing live streaming vitals data and connectivity status on the Neuron 3. The Vitals Stream application provides clinicians with clear visibility into connected devices, enabling easy patient identification and association with captured medical device data. The system can be installed at the bedside or as a mobile deployment, with the Neuron effectively managing communication between multiple medical devices and hospital information systems, providing seamless real-time access to multiple devices without disrupting clinical workflows.

An easy-to-use system that streams secure and precise medical device data

Simple implementation, management, and use:

- Increased visibility of patient vitals at the bedside.
- Continuously stream data from virtually any medical device.
- Sends medical device data into the patient's electronic medical record.

Improve data quality, timeliness, and accessibility:

- Near real-time access to medical device data.
- Secure patient identification and association at the bedside.
- Rapid user authentication.

Chart Xpress

An intelligent and time-saving solution designed to simplify clinical documentation utilizing the Neuron 3 at the point of care in low-acuity care setting. This innovative application connects to existing spot check monitors, capturing and wirelessly sending validated vital signs to the electronic medical record before the clinician leaves the bedside. With optional Early Warning Scoring System integration, the application streamlines charting, saving valuable time and improving patient care. It is designed with clinicians in mind, offering intuitive and flexible use. By eliminating time-consuming, error-prone manual entry of vital signs, Chart Xpress reduces charting time, allowing clinicians to spend more time with patients and less time on administrative tasks.

Enhances clinical decision making

- Faster documentation of vital signs into the electronic medical record.
- A goal of providing more accurate charting of vitals and patient-specific information.
- Identify patients potentially at risk using the optional Early Warning Scoring System.

Increases time for direct care

- Streamlined clinician- friendly workflow.
- Vital signs are filed to the patients electronic medical record at the point of care.

Cost effective

- Adds connectivity and facilitates documentation to existing spot check monitor infrastructure.

Empower your healthcare environment with Philips Connectivity Hubs

Simplify device integration

Support the integration of a wide range of medical devices, regardless of their interfaces and communication protocols. This allows for seamless connectivity across different types of medical devices, improving overall data accessibility and usability.

Streamline workflows

Streamline workflows by making real-time medical device data readily available to destination systems for documenting, reporting, analyzing, and making critical decisions. This enhances efficiency and reduces the need for manual data entry requirements.

Enhance data security

Facilitate the secure and rapid transmission of encrypted medical device data to destination systems for documenting, reporting, analyzing and, ultimately, making critical decisions across the healthcare environment.

Improve patient monitoring

Through improved connectivity, healthcare providers can access a more complete picture of a patient's health by having comprehensive, high-fidelity data with the goal of helping to improve diagnosis and treatment decisions.

Medical Device Integration

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