PHCbi

LabSVIFT™ IoT Lab Management Solution

Map, Track, and Manage Critical Lab Devices

MTR-IOTWE1-PA

Consolidate the management of multiple laboratory devices into one streamlined platform that helps improve efficiency and simplifies daily operations. LabSVIFT is a cloud-based lab management solution that allows you to map, track, and manage critical lab devices from one floor to the next or across facilities regardless of equipment brand.

Peace of Mind

Embrace certainty. Track your laboratory devices while in the lab or remotely. LabSVIFT utilizes 24/7 continuous monitoring of all your connected devices. Timely, accurate notifications are based on real-time product operations, not just historical data. This delivers better specimen security by providing alerts that help identify issues.

Safety and Reliability

LabSVIFT provides safe, secure IoT management of your monitoring data and helps your team remain FDA 21 CFR Part 11 compliant. The audit trail function ensures the authenticity, integrity, and confidentiality of electronic data.

PHCbi brand services also offer validation and calibration services to ensure data accuracy.

Operational Efficiency

No matter the number of floors or facilities, view all of your connected equipment through the hub. Reports and a customizable user interface reduce document prep time and improve accuracy, allowing you to focus on your core activities.
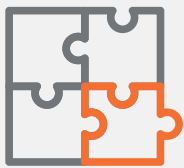
Expansive Compatibility

Connect, check, and control your entire laboratory. LabSVIFT is compatible with a wide range of cloud-enabled products, regardless of equipment manufacturer. Older-generation products can also be retrofitted to enable limited monitoring capabilities.
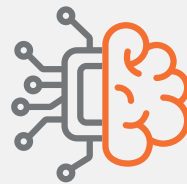
Data-Based Decision Making

LabSVIFT collects a wide range of monitoring parameters. Centralized, secure data storage from your critical laboratory equipment simplifies data analysis. The LabSVIFT IoT Lab Management Solution is designed to create a foundation of highly accurate, real-time monitoring that helps improve data-based decisions.

Easy Calibration

Digital sensors can be replaced with a pre-calibrated sensor when it is time to recertify. No more expensive and time-consuming service visits for calibration. Old sensors can be returned for calibration when convenient, so downtime is minimized. Traceability management with sensor calibration certification support is available.

PHC Corporation of North America

21 CFR Part 11 Compliant

More Than Monitoring

The LabSVIFT IoT Lab Management Solution goes beyond basic laboratory monitoring and maintenance tracking. LabSVIFT is the lab management solution that allows you to keep an eye on critical laboratory equipment assets in one, streamlined platform. Manage your lab, monitor laboratory equipment 24/7, minimize the amount of time needed to resolve problems, and maximize the efficiency of your entire facility.
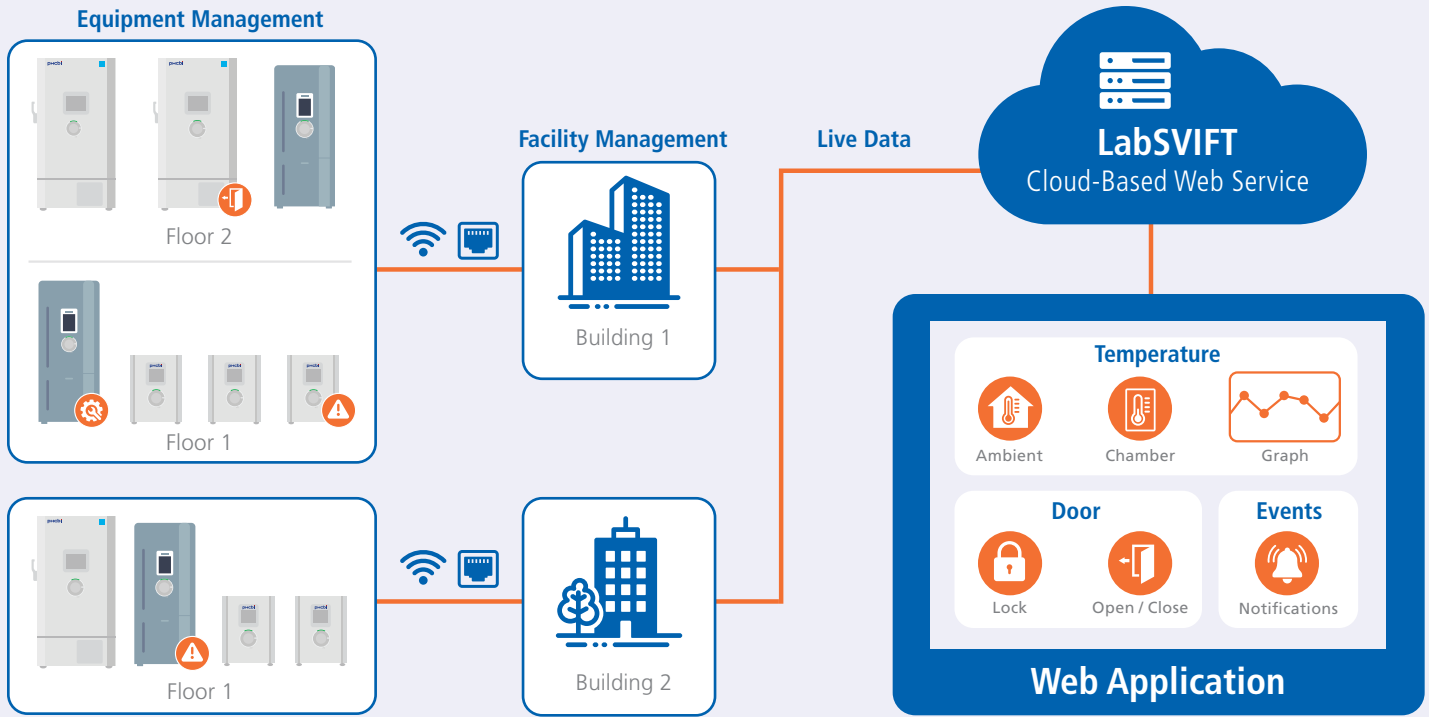

Web Service Dashboard:

LabSVIFT consolidates the management of multiple laboratory devices into one platform to help improve efficiency and simplify daily operations. The user-friendly web app enables remote device monitoring, timely notifications, maintenance alerts, lab management tracking, and more. Paperless batch management of operation log reports and other reports make regulatory document preparation easier and faster.

Web App Functions [1]

Contract Management [2]	Manage contract details, upgrade, terminate contract
Lab Management	Create, edit, and delete locations, accounts, assets
Monitoring	Monitor parameters for all the connected assets
Document Management	Manage documents (logs, manuals, calibration certificates etc.)
Audit Trail	View the operation log for the web app
Ticket Management	Manage and control tickets

[1] More functions will be added in later phases.

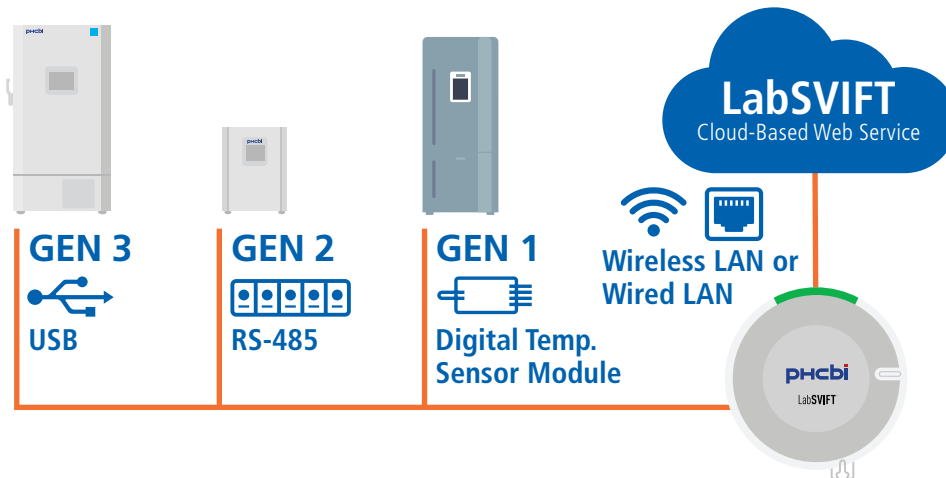[2] Some functions are available only to specific roles.
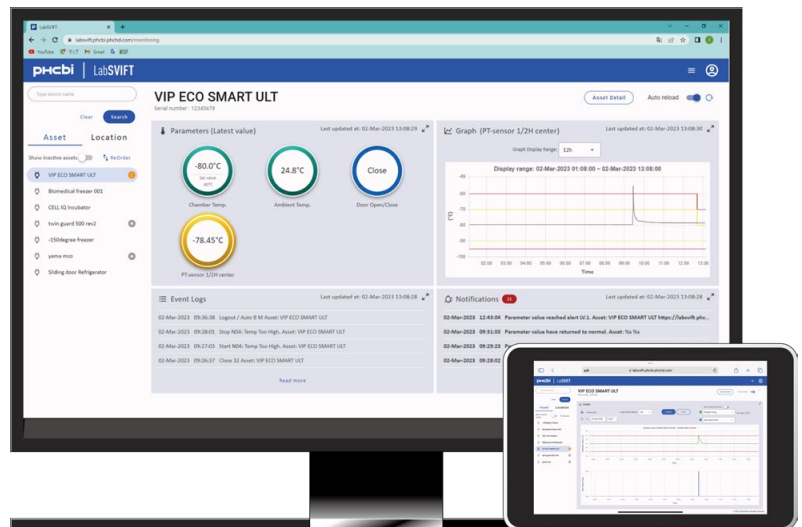
Expansive Compatibility

The LabSVIFT Solution is compatible with a range of products and manufacturers to help ensure your entire laboratory is connected.

Measured Parameters		Temp	Door Openings	Events	Ambient	Status	Warnings	User Access	Set Values	Defrost	CO₂, O₂
VIP® ECO SMART	GEN 3	✓	✓	✓	✓	✓	✓	✓	✓		
VIP ECO and TwinGuard®	GEN 2	✓	✓	✓	✓				✓		
Refrigerator MPR (OLED)	GEN 2	✓	✓	✓	✓				✓	✓	
MDF (-30°C, -40°C)	GEN 2	✓	✓	✓	✓				✓	✓	
MCO Incubator	GEN 2	✓	✓	✓	✓				✓		✓
Undercounter Refrigerator / Freezer	GEN 1	✓		✓							
Other PHCbi brand Models, 3rd-Party	GEN 1	✓		✓							

GEN 3
USB

GEN 2
RS-485

GEN 1
Digital Temp. Sensor Module

Wireless LAN or Wired LAN

LabSVIFT
Cloud-Based Web Service

GEN 1: Bundled options (sensor module, DC input module) are necessary to monitor GEN 1 and third-party products. Sensor modules can be used to monitor the chamber temperature and ambient temperature. The bundled AC adapter is necessary to connect to a power supply.

GEN 2: The RS-485 cable is used to connect GEN 2 products to the transmitter. The bundled AC adapter is necessary to connect to a power supply.

GEN 3: The USB cable is used to connect GEN 3 products to the transmitter. The USB cable also doubles as a power supply.

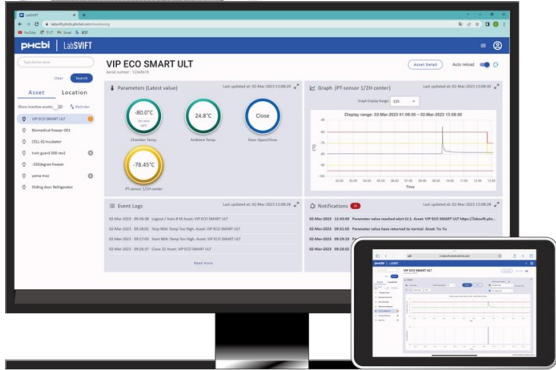## Flexible Plans to Meet Your Lab's Specific Needs:

Access the LabSVIFT web app on desktop, tablet, and smartphone devices. The intuitive user interface simplifies laboratory management and reporting and is customizable to fit your facility's needs. Receive notifications via SMS or email so you never miss a critical alert. LabSVIFT annual plans are available to meet the needs of small, mid and large-size facilities. The subscription-based service enables continuous enhancements of the LabSVIFT Solution, paving the way towards the lab of the future.

Subscription Plans:	LITE For real-time monitoring of lab equipment	BASIC Real-time monitoring as well as permanent lab equipment record keeping	EXPERT FDA 21 CFR Part 11 compliant for strict control of lab equipment and web operations
Data Viewing Period	Past 14 days	Past 5 years	Past 5 years
CSV Data Folder	Local	Local/cloud	Local/cloud
Notifications	Email	SMS/email	SMS/email
Ticket Management	—	✓	✓
Audit Trail	—	—	✓

MTR-IOTWE1-PA

Model Number		MTR-IOTWE1-PA
Exterior Dimensions (W × D × H) [1]	inches | mm	4.7 × 1.4 × 4.7 | 120 × 35 × 120
Net Weight (Without Batteries)	lbs | g	0.45 | 205
Performance		
Input Voltage/Current	DC V | A	5 | 2
Maximum Power Consumption	W	2.5
Power Source		GEN 1, GEN 2: AC adapter GEN 3: via USB port Battery power (only for a power failure)
Environmental Conditions		Ambient temperature: 5°C to 30°C Humidity: 80% R.H. or less
Data Storage Period		14 days (in case of memory full, overwrite)
Connectable Equipment Via LabSVIFT Transmitter		1 unit
Battery Specification to Use (Not Bundled)		Alkaline LR6 AA x 4
Warranty		1 year parts and labor
Network		
Network Specifications		Wireless LAN | Wired LAN
Network Protocol		IEEE 802.11 A/B/G/N 2.4GHz/5GHz
Wireless Security	Network authentication	WPA2-Personal | WPA2-Enterprise
	Encryption method	WEP ON/OFF (Open) AES (WPA2-Personal, WPA2-Enterprise)
	EAP authentication mode	PEAP, EAP-TLS (WPA2-Enterprise)
Interface		
Ports	Digital input port (RS-485)	1
	LAN (RJ45 type)	1
	Digital temp. sensor port/ Analog DC IN port	2
	USB-C port	1
Options		
Interface Board	Required for GEN 2 products	MTR-480-PW
Temperature Sensor Independent Temp. Monitoring PT Sensor Range: -200°C to +200°C Accuracy: (Unit Temp.; 20~30°C) ±0.4°C ±1 Digit (-100~100°C) ±0.6°C ±1 Digit (-200~-100, 100~200°C) Accuracy: (Unit Temp.; 0~20°C, 30~35°C) ±0.5°C ±1 Digit (-100~100°C) ±0.6°C ±1 Digit (-200~-100, 100~200°C)		MTR-DPT-PW
Sensor Bottle Kit Vaccine Simulation Glycol Bottle With Thermistor Sensor Range: -40°C to +85°C Thermistor Accuracy: ±0.3°C ± 1 Digit (0~40°C) ±0.7°C ± 1 Digit (-40~0, 40~85°C)		MTR-BTL-KIT
Analog Converter	To connect analog output devices (0-5 V) to LabSVIFT	MTR-ANACON-PW

MDF-DU703VHA-PA shown with LabSVIFT transmitter MTR-IOTWE1-PA

Specifications are subject to change without notice.
For latest specification information contact PHC Corporation of North America at info@us.phchd.com.
Performance data herein is based on independent testing at time of publication
Only Available in U.S.A.

Interface ports on LabSVIFT transmitter MTR-IOTWE1-PA

21 CFR Part 11 Compliant