



ELSP – Common Connectable Infrastructure Team

# Lite Panel Pro

External Presentation

09/26/2024



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# Lite Panel Pro

- Introduction
- Features and Benefits
- Architecture and specifications
- Cost comparison
- Additional Resources



# Lite Panel Pro

Introduction

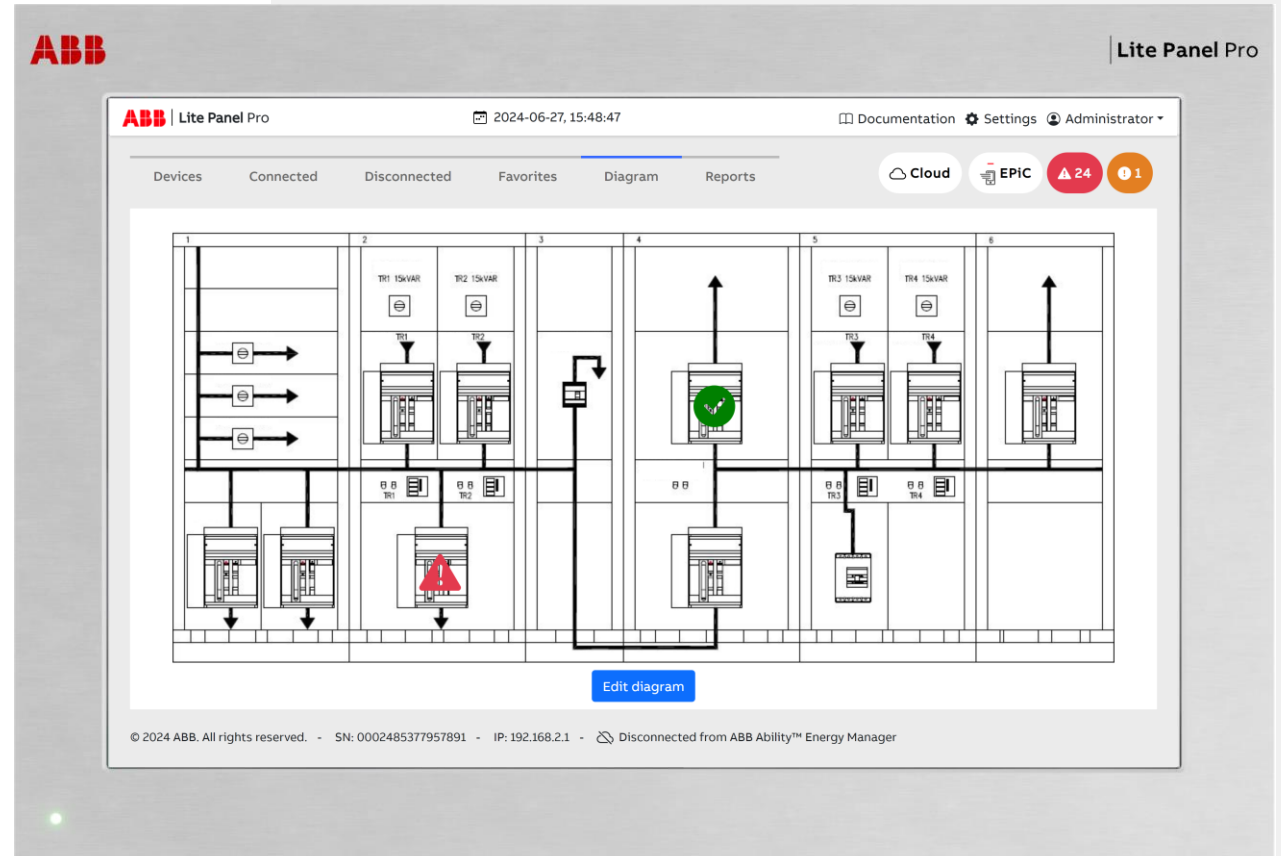
ABB



# Lite Panel Pro

## Connection and monitoring for Low Voltage Devices

ABB Lite Panel Pro is the state of the art in monitoring, offering a versatile switchboard HMI with a large touchscreen display and an intuitive interface.



# Lite Panel Pro

Design with innovation



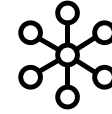
## Versatile

Versatile switchboard panel display  
able to monitor and control  
connected Low Voltage devices



## Efficient

Energy efficiency granted by ABB  
Ability™ Energy Manager ready



## Flexible

Flexibility to integrate 3rd party  
devices based on templates  
enabling brown-field installations



## Innovative

Future-proof hardware supporting  
product evolution with new  
software-enabled functionalities



## Accessible

Ease of use with large display  
in-line with market  
requirements



## Easy

Simplified commissioning of Low  
Voltage products

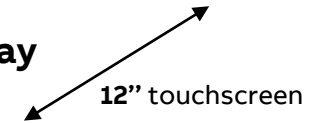
# Lite Panel Pro in a nutshell

## Switchboard panel display

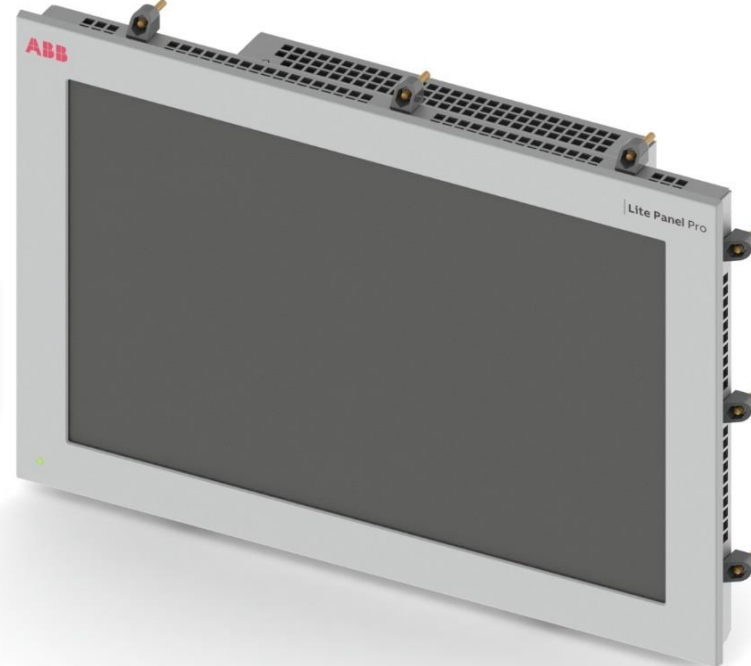


Versatile **switchboard panel display** able to monitor and control connected Low Voltage devices

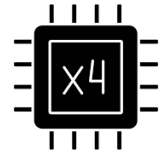
Ease of use with **large display** in-line with market requirements



Energy efficiency granted by **ABB Ability™ Energy Manager** ready



**Future-proof hardware** supporting product evolution with new software-enabled functionalities



**4 core processor**  
**8 GB RAM**  
**64 GB Storage**

Flexibility to integrate **3rd party devices** based on templates enabling brown-field installations



**Simplified commissioning** of Low Voltage products

# Lite Panel Pro

## Customer Story

### Customer Pain Points for Lite Panel 1.0

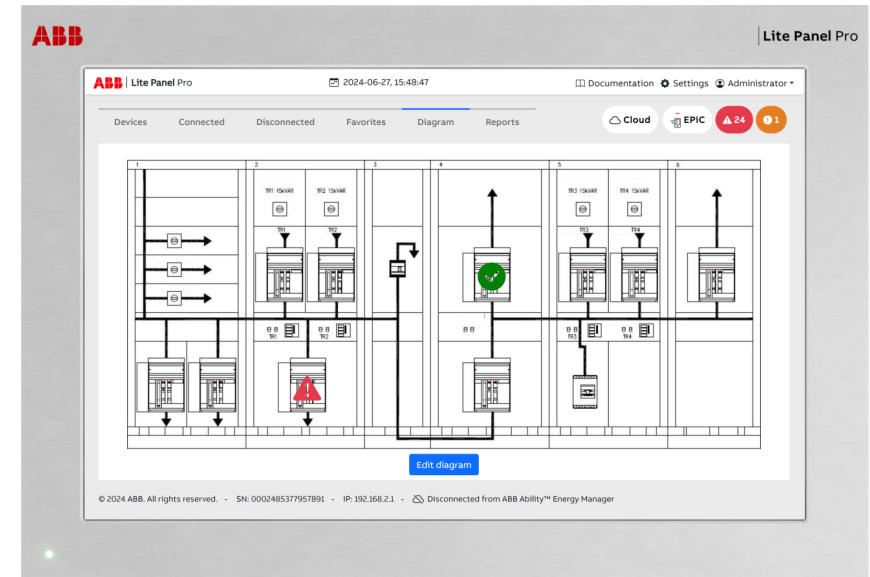
The **current version of Lite Panel 1.0** presents some market gaps, identified as follows:



- **Small display** not in-line with market expectations (ex. USA, China)
- **Complicated commissioning** from HMI only
- Lack of **support for 3<sup>rd</sup> party devices** in brown-field installations
- Lack of **cloud support** (ABB Ability™)
- **Limited flexibility** in operation (possible only from HMI)
- **UL listing: no coverage** for markets requiring it

### Lite Panel Pro solves the customers needs

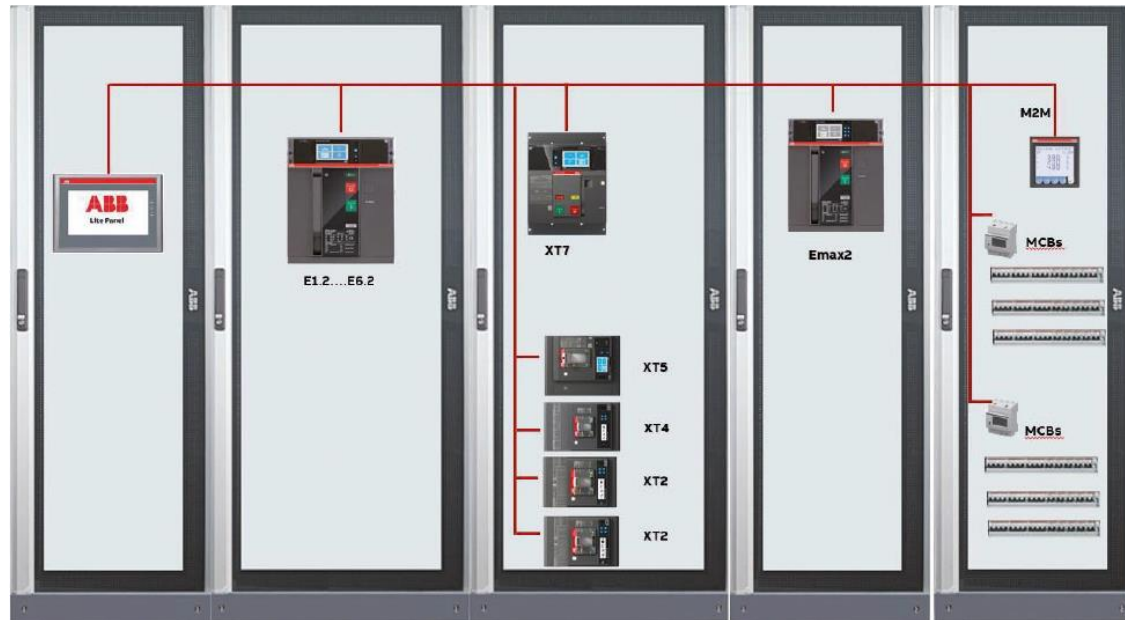
The client needs a versatile **switchboard panel display** able to monitor and control connected Low Voltage devices, both locally (on premise) as well as when connected to ABB Ability Energy Manager





# Customer story

## Use case



## Local monitoring and control of Low Voltage products from a switchboard panel display

- **Cloud ready:** ABB Ability™ Energy Manager
- **Native support** of ABB Low Voltage products
- **Support of third -party devices** based on templates
- **Compatible** with local supervision systems (*SCADA, BMS*)
- **Global market coverage** enabled by *IEC and UL certification*
- **Simplified commissioning** via HMI or digital tools (*web-browser, EPiC*)

# Lite Panel Pro

## Bridging on-premise & cloud

With Lite Panel pro you don't need to think anymore about the local and cloud architecture.

Both options are always available in a scalable way.

Save cloud data flow, save energy and preserve the planet thanks to Lite Panel Pro!

You don't know if your client is able to publish his devices on the cloud?

**No worries**, with Lite Panel Pro the Local connection is always available and can be upgraded to the cloud later.

	Lite Panel Pro On-premise only	Lite Panel Pro Cloud connected
<b>How it works?</b>	Active views as soon as you connect the products	Publish the products you want on Energy Manager cloud platform
<b>Subscription price</b>	No subscription required	Regular Energy Manager offer 249 EUR / year up to 5 devices
<b>Control</b>	Local control	Local control, possible also with VPN No control through cloud
<b>Power Quality</b>	Data from field devices	EM Scanning edition
<b>Alerts</b>	Alerts from field device	Local devices alerts + EM alerts including SMS/mail
<b>Reports</b>	Excel / PDF reports	Local Excel / PDF reports + EM reports Energy Performance indicator Enpi
<b>Products grouping</b>	-	Yes in EM
<b>Single Line Diagram</b>	Image with tags	Local Image with tags + EM Single Line Diagram
<b>Devices status</b>	Yes, detailed connected devices status	EM devices status
<b>Energy Cost</b>	-	EM Energy Cost, peak value
<b>Health</b>	-	EM health KPI / Predictive Maintenance
<b>Data storage</b>	15min data storage in device memory	15min data storage in device memory + cloud storage



# Lite Panel Pro

Architecture and specifications

# Architecture

## Example of typical architecture



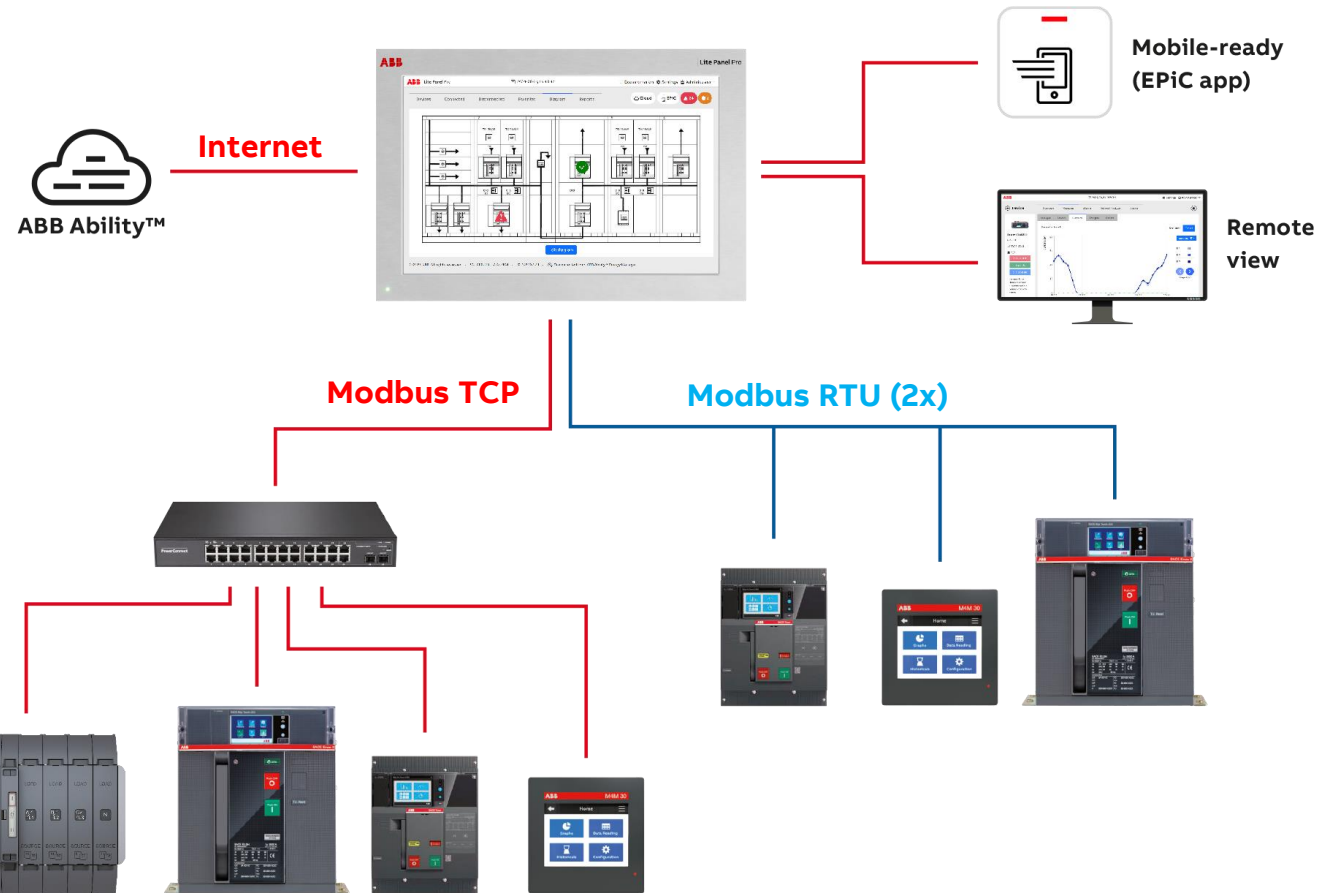
Monitoring of ABB Modbus RTU and TCP devices is supported, as well as some third-party devices via templates



Lite Panel Pro can connect to ABB Ability™ Energy Manager without the need of additional hardware



Local supervision systems are supported via the protocol translation functionality (Modbus RTU to TCP)



# Digital products family outlook



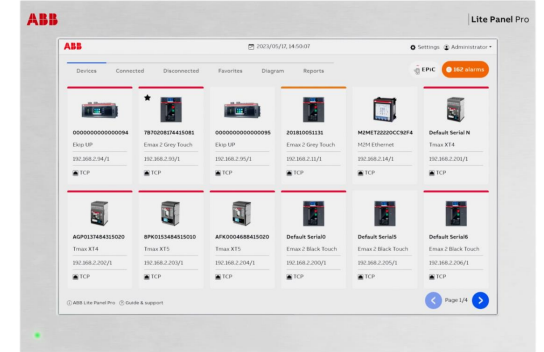
Lite Panel



E-kit



Edge Industrial Gateway

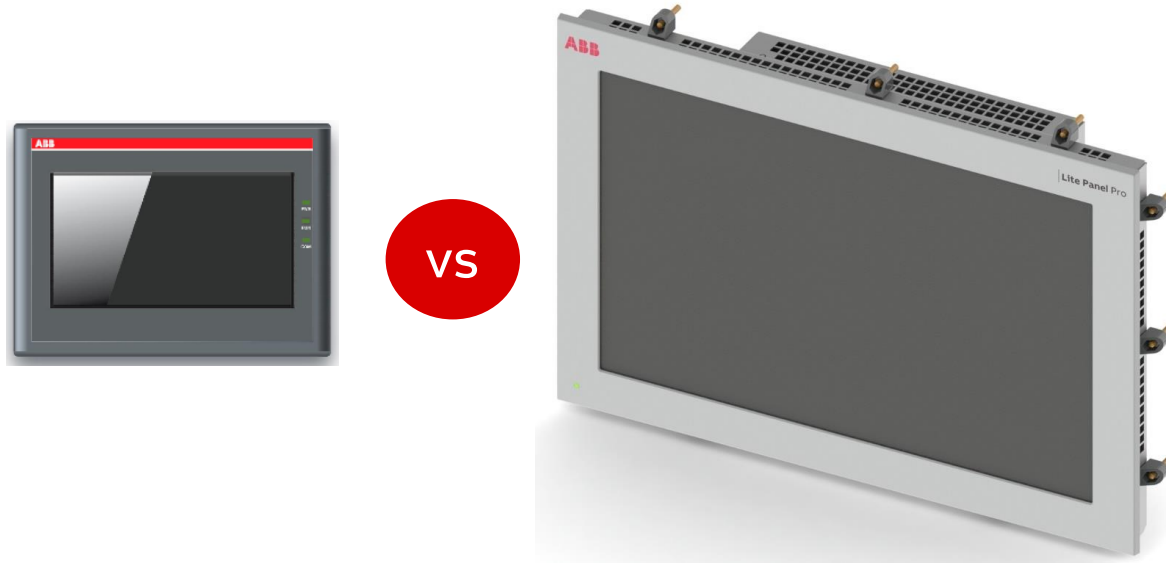


Lite Panel Pro

Offer		Front panel monitoring	Local view (intranet)	Cloud monitoring	3rd party devices
Lite panel	28 devices max	■			
E-Kit	45 devices max				■
<i>Edge industrial Gateway (local view)</i>	<i>Obsolete</i>		■		
Edge industrial Gateway	60 devices max			■	
Lite Panel Pro	90 devices max	■	■	■	■

# Lite Panel Pro

## Comparison with current Lite Panel

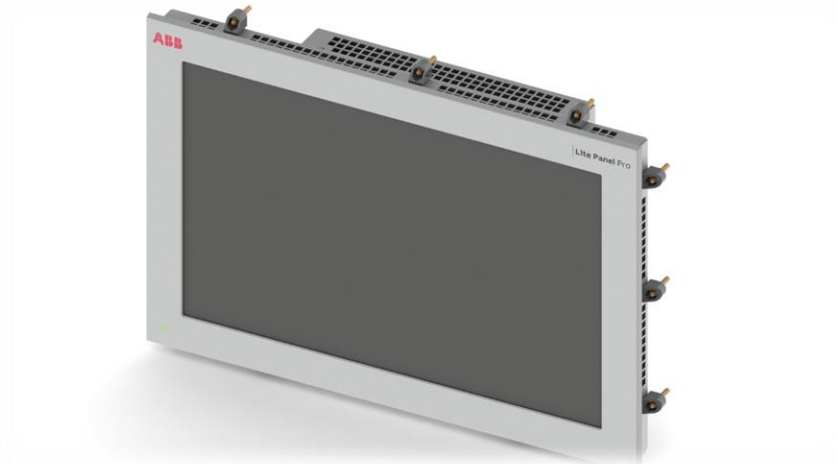


	Lite Panel	Lite Panel Pro
Screen size	7"	12"
Real-Time Monitoring	Yes	Yes
Historical data storage and visualization	No	Yes
Breaker/ATS Control	Yes	Yes
Cloud monitoring (without additional hardware)	-	Yes
Connected devices: TCP	Up to 20	Up to 90
Connected devices: RTU	Up to 16	Up to 30
Connected devices: TCP + RTU	Up to 20 + 8	Up to 60 + 30
3rd party devices	-	Yes, up to 20
Protocol translator (RTU to TCP)	No	Yes
Single Line Diagram	No	Yes
Integrated webserver	No	Yes
Data export/reports	No	Yes
Mobile ready	No	Yes
Other	No	More functionalities coming soon

# Key Functionalities

From Local Device Monitoring to Energy Management in the cloud

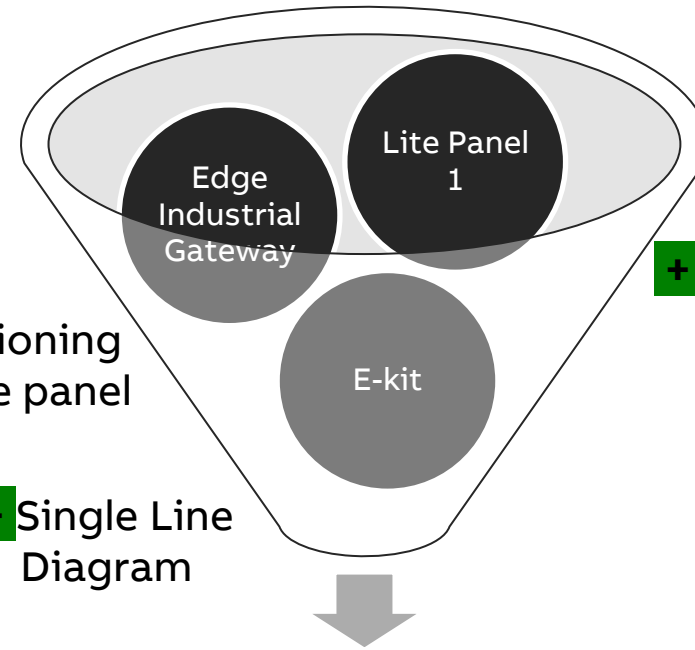
## One Panel – a multitude of features



+ Direct Cloud Connectivity

+ Cloud provisioning directly from the panel

+ Single Line Diagram



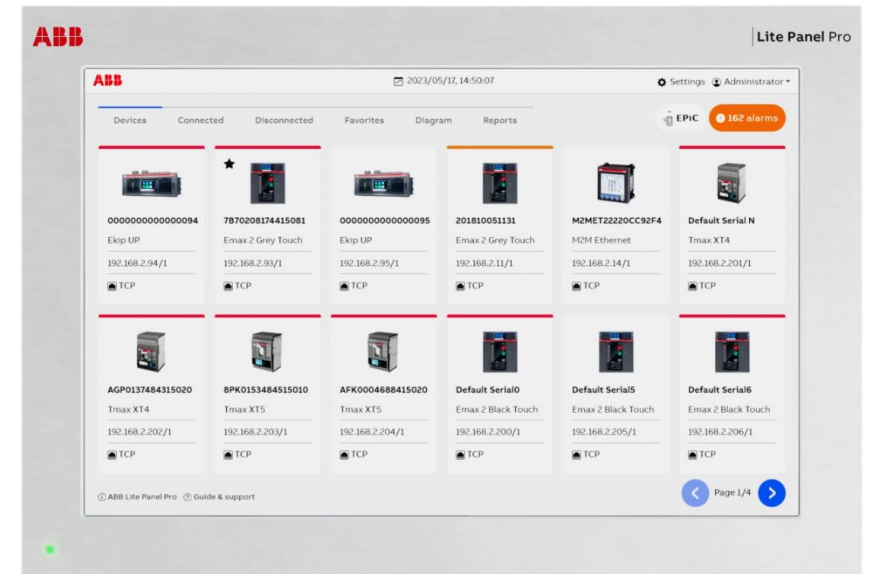
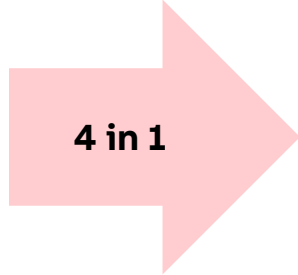
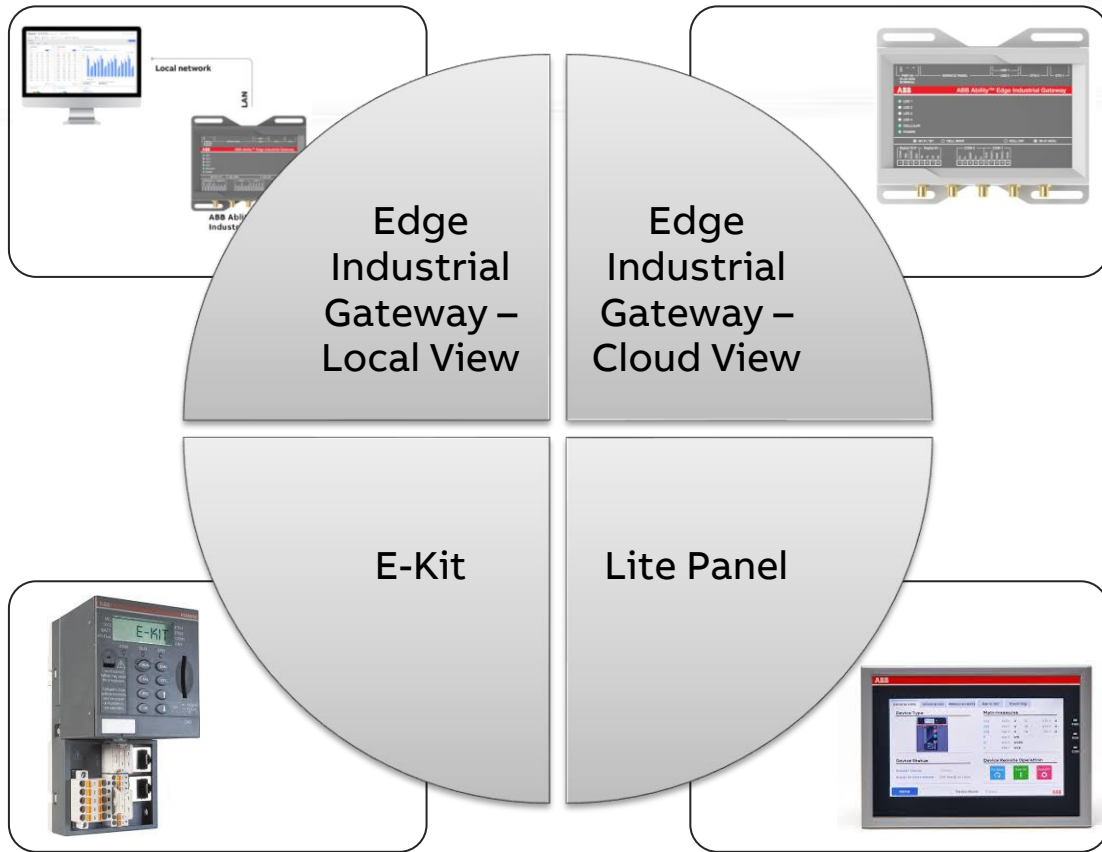
+ Local data storage

+ 3<sup>o</sup> party device support via templates

+ Protocol translator

# Lite Panel Pro

## Key functionalities





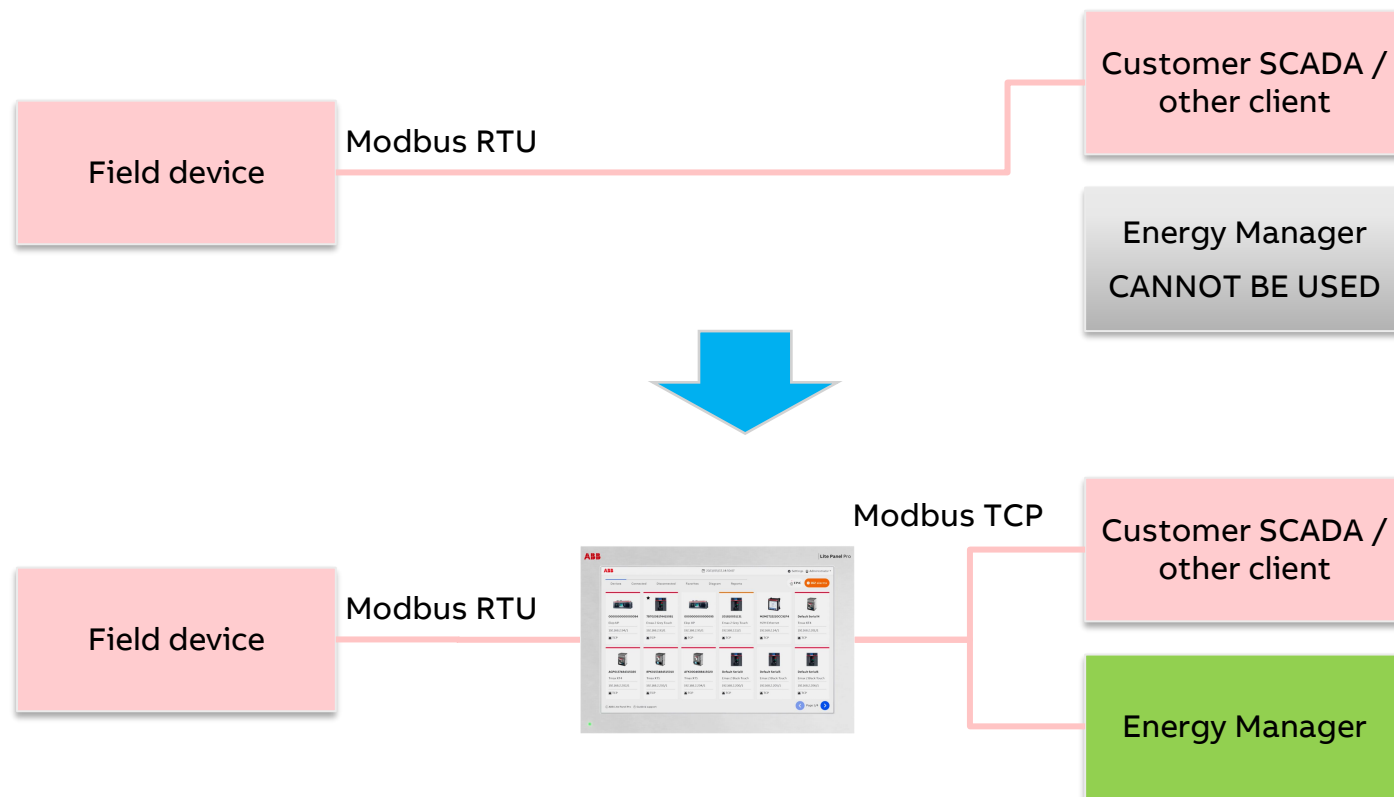
# Lite Panel Pro

## Protocol converter

Modbus RTU is still a commonly used protocol, but it accepts only one client (or data user) so practically if the Modbus RTU is already in use there is no way to use the same data with Energy Manager... until today!

Lite Panel Pro includes a protocol converter to switch from Modbus RTU to Modbus **TCP**, a protocol which can be used by the existing client and Energy Manager... so you enjoy both!

Nb. The existing client (e.g. Scada) need to be connected to Modbus TCP with the signal provided by the Lite Panel pro.

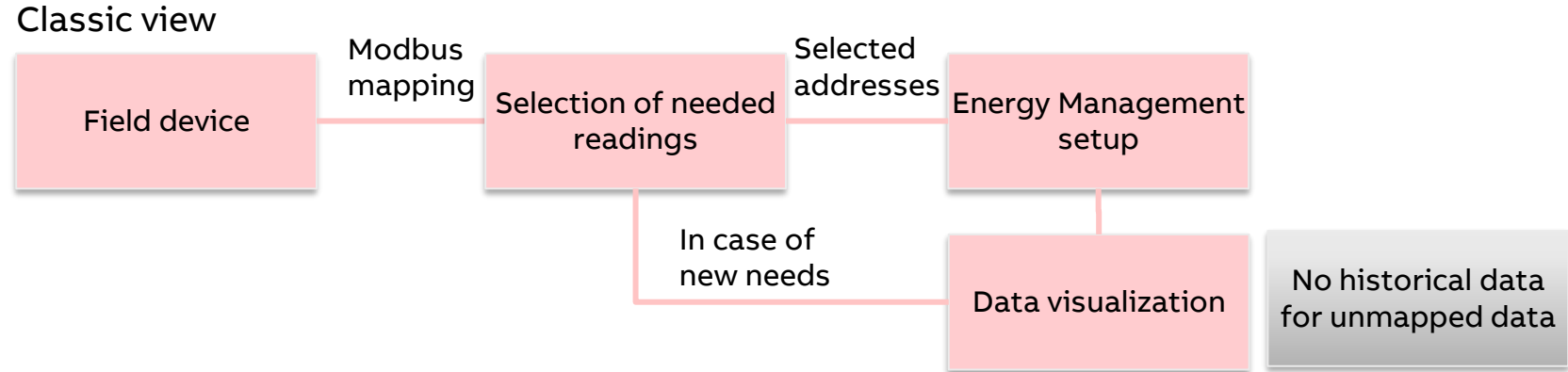


# Lite Panel Pro

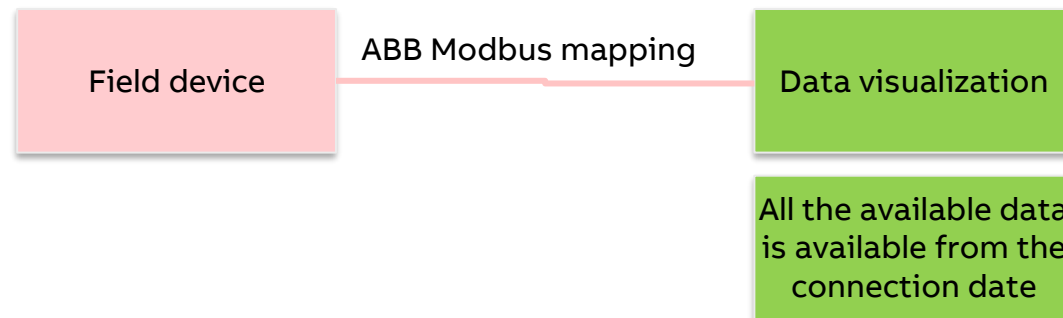
## Pre-mapping of ABB devices

When publishing a device on the Energy Management platform (both local or cloud) the first step is to get relevant information from the field devices.

ABB most common devices are already mapped in Lite Panel pro, it is just a matter of seconds to get them on the platforms and start using the measurements!



### ABB offer

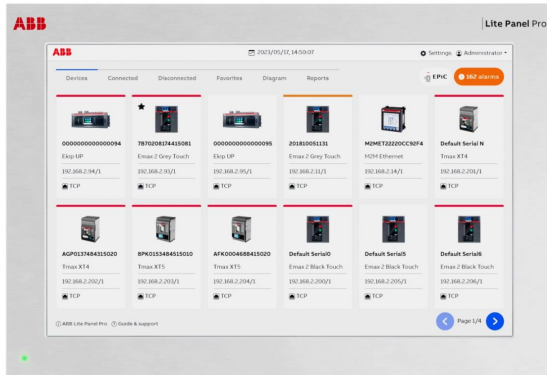


#### Benefits

- ✓ Faster implementation
- ✓ No system Integrator required
- ✓ Wider measurements, from day 1

# Lite Panel Pro

Improvements compared to E-Kit, 3rd party devices connections in modbus RTU



Lite Panel Pro

	E-Kit	Lite Panel Pro
<b>Baud rate</b>	9600	9600-19200-38400
<b>Bit parity</b>	even	Even / odd / one
<b>Stop bit</b>	1	1 or 2
<b>Lines</b>	2	2
<b>Setup combinations</b>	unique	Two, with 18 possibilities

# Lite Panel Pro

Supported devices at launch time\*

Device Family	Models/Electronic unit supported
Emax 2	Ekip LCD, Ekip Touch
Ekip Up/Ekip Up+	Ekip Touch
New Emax	PR122, PR123, PR123/DC
Tmax XT	Ekip LSIG, LSI, M-LRIU, E-LSIG
Tmax XT2/XT4/XT5/XT7	Ekip Touch
Tmax T4/T5/T7	PR223DS, PR223EF
Tmax T4	PR222/DS
Tmax T5	Ekip E-LSIG
Tmax T7	PR332, PR333
TruOne	LCD, Touch

Device Family	Models/Electronic unit supported
Slim line XR ITS 2.1	
Ekip Signaling Modbus TCP	
BM300	
IM300-U, IM300-I	
IM301/IM302/IM303	
EM400	
M2M	RTU, TCP
M4M	20, 30
EQMeter	

# Lite Panel Pro

## Firmware update

### Self-service firmware update

- [Firmware update procedure](#) available in ABB library and updated with each FW release
- In a few simple steps the user can update the firmware version, gaining access to new functionalities

The screenshot shows the 'Settings' menu of an ABB device. The 'Software Update' tab is selected, showing an upload interface for a software update package. The file 'ContainerUpdate.img' is selected. A blue button labeled 'Upload software update package' is visible. A yellow warning box states: 'Allowed format is img. Maximum size of software update package must be 1GB.' Below this, there is a 'Check for updates' section with a QR code and a link to 'software update guidelines'. The footer of the interface displays: '© 2024 ABB. All rights reserved. - SN: 0AFRD00000002 - IP: 192.168.2.1 - Connected to ABB Ability™ Energy Manager'.



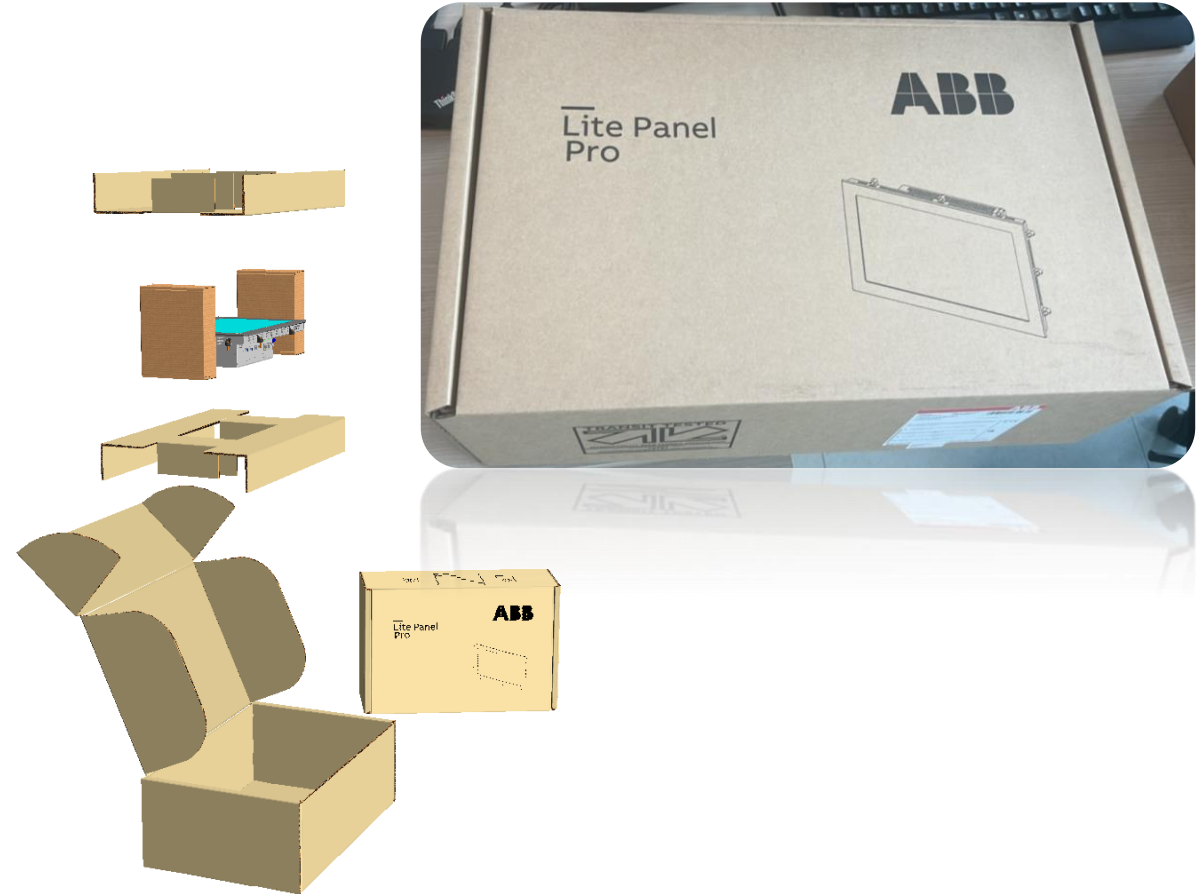
# Lite Panel Pro

Cost comparison

# Lite Panel Pro

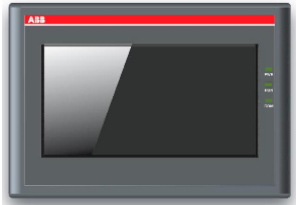
## Commercial information

- Single SKU/Commercial Code: **1SDA123321R1**
- Suggested demand price: 2700-3000 USD
- Commercial availability: **18th July 2024**
- Lead time from **ELSP Hub Europe: 5 days**

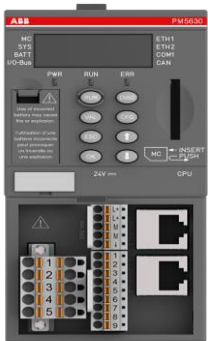


# Lite Panel Pro

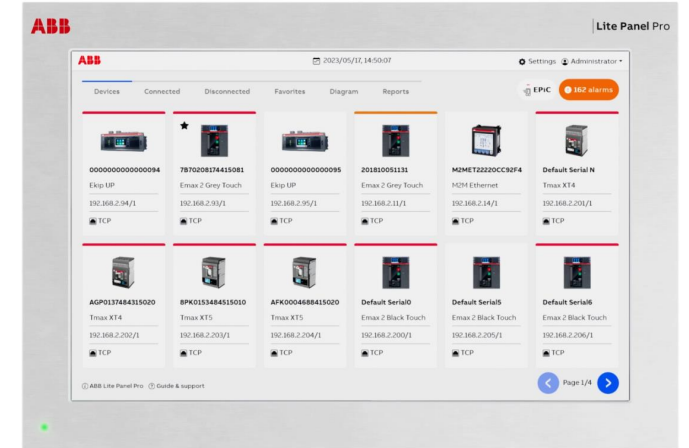
## Pricing



Lite Panel



E-kit



Lite Panel Pro







# Lite Panel Pro

Additional resources

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# Lite Panel Pro

## Additional Resources

1. [Kit Sheet](#)
2. User Manual
  - [\[EN\] ABB Library - 1SDH002289A1002](#)
3. [Supported devices list](#)
4. [3° party device templates](#)
5. [Firmware update procedure](#)
6. [Frequently Asked Questions](#)
7. [CE declaration](#)
8. [Internal product page](#)
9. [External product page](#)
10. [Product presentation](#)
11. [Brochure](#)
12. [How to video](#)
13. [Video tutorial](#)
14. [Promotional Video](#)

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