

# ETHERNET & WIRELESS



**Krzysztof Hajzyk**

ProSoft Technology

**Pavel Vladyka**

ControlTech - IndustryNet

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

## WHERE AUTOMATION CONNECTS

- 185+ Plug-In řešení pro Rockwell Automation



- 160+ protokolových bran



- 40+ řešení bezdrátové komunikace



# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

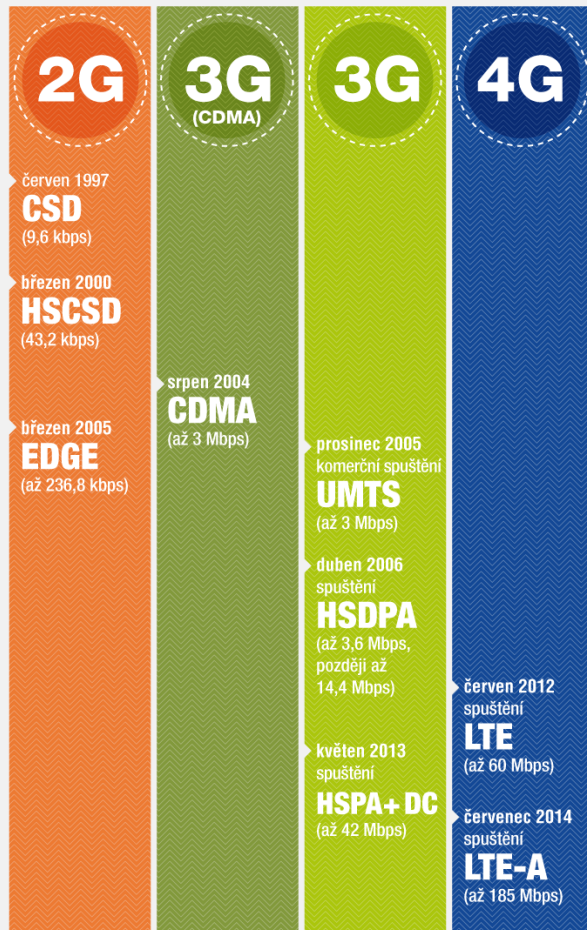


## ICX35-HWC *4G LTE Industrial Cellular Gateway*

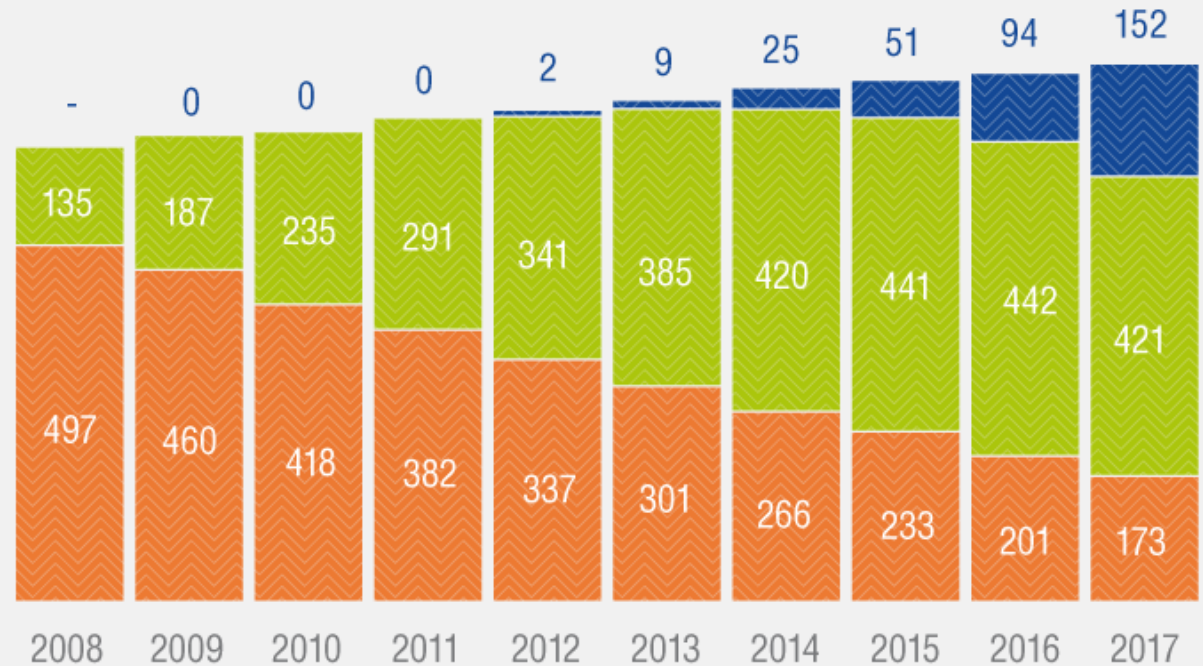
- ❖ **4G/LTE technologie** (GSM, GPRS, EDGE)
- ❖ **Ethernetová a Sériová komunikace**
- ❖ **Možnost zasílání SMS zpráv**
- ❖ **Integrovaná podpora pro OpenVPN a IPSec**
- ❖ **ProSoft Connect**

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

Mobilní internet v České republice



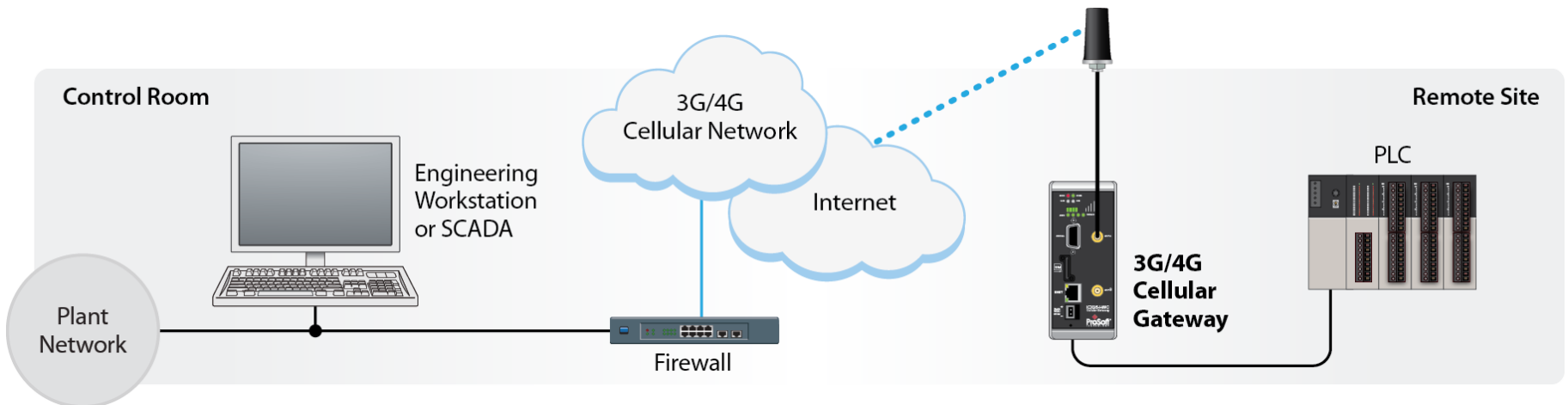
Podíly **2G**, **3G** a **4G** v Evropě



Podle počtu SIM, v milionech kusů.

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

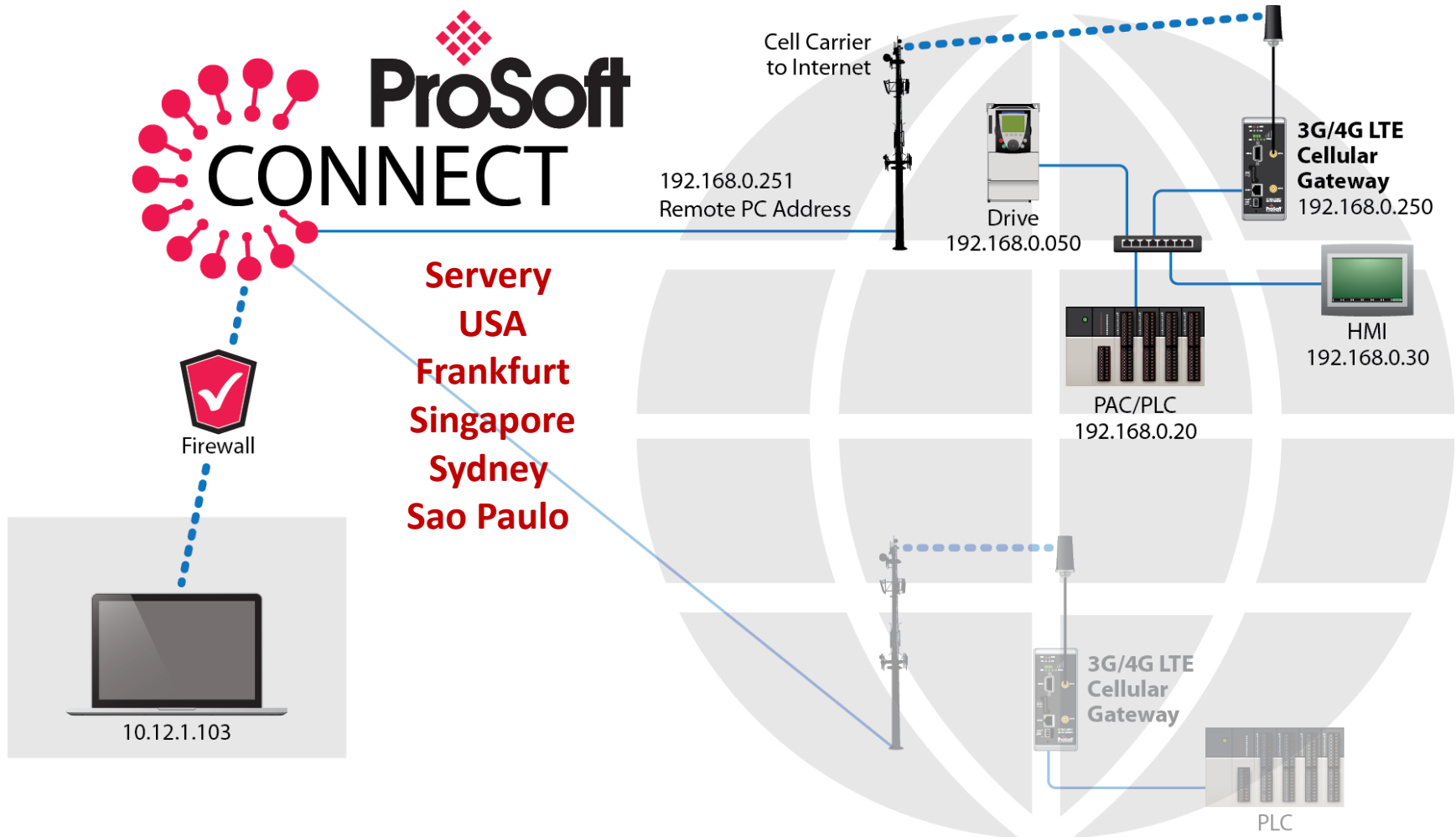
- ❖ Zabezpečené VPN připojení přes internet a linky mobilních operátorů
- ❖ Současná komunikace Ethernetového i sériového portu (Modbus a DF1 encapsulation)



# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

- ❖ **Posílání a příjem textových zpráv SMS z vašeho EtherNet/IP PLC**
- ❖ **Díky rychlým SMS zprávám jste včas informováni o případných problémech, které můžete okamžitě řešit – významně tak můžete snížit čas prostoje a ztrát**
- ❖ **Vestavěný web server pro lokální i vzdálenou konfiguraci, monitorování a diagnostiku bezdrátové sítě**

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI



**Servery**  
**USA**  
**Frankfurt**  
**Singapore**  
**Sydney**  
**Sao Paulo**

Firewall

10.12.1.103

192.168.0.251  
Remote PC Address

Cell Carrier  
to Internet

Drive  
192.168.0.050

**3G/4G LTE  
Cellular  
Gateway**  
192.168.0.250

PAC/PLC  
192.168.0.20

HMI  
192.168.0.30

**3G/4G LTE  
Cellular  
Gateway**

PLC

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

## Bezpečná, Cloud-Native Platforma pro IIoT



Vysoká spolehlivost



Přístup kamkoliv



Žádný PC Software



Jednoduché použití



Bezpečné

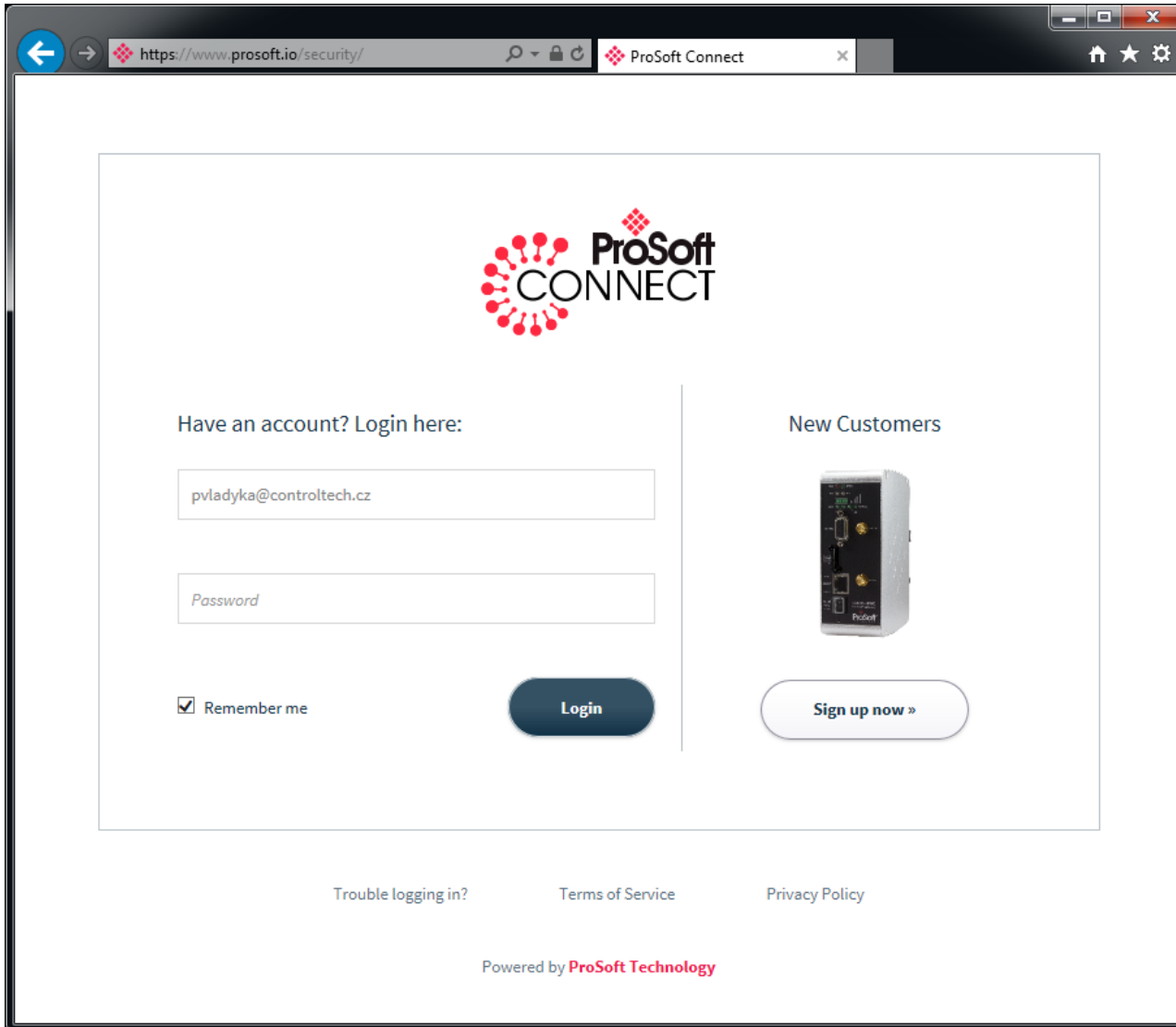
- ❖ BEZ NUTNOSTI POŘÍZENÍ STATICKÉ, VEŘEJNÉ IP ADRESY.
- ❖ KONFIGURACE GSM ROUTERU ULOŽENA NA CLOUDU.
- ❖ CENA PROSOFT CONNECT SECURE REMOTE ACCESS?

# ZDARMA

• **ControlTech**  
Industrial Automation



# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI



The screenshot shows a web browser window with the address bar displaying <https://www.prosoft.io/security/>. The page features the ProSoft CONNECT logo at the top center. Below the logo, there are two main sections: "Have an account? Login here:" and "New Customers".

The "Have an account? Login here:" section contains a login form with the following elements:

- An email input field containing the text "pvladyka@controltech.cz".
- A password input field with the placeholder text "Password".
- A checkbox labeled "Remember me" which is checked.
- A dark blue "Login" button.

The "New Customers" section contains:

- An image of a ProSoft industrial device.
- A light blue "Sign up now »" button.

At the bottom of the page, there are three links: "Trouble logging in?", "Terms of Service", and "Privacy Policy". Below these links, it says "Powered by ProSoft Technology".

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

The screenshot displays the ProSoft Connect web client interface. The browser address bar shows <https://www.prosoft.io/webclient/> and the page title is "ProSoft Connect". The main heading is "Gateways" with an "Activate a Gateway" button. A navigation sidebar on the left includes icons for Gateways, Team, Activity, Alerts (with a notification badge), Support, and Account. The main content area is titled "CELLULAR GATEWAYS" with a count of 3. It lists three gateways, each with a "VPN" indicator, a notification badge, and a gear icon for settings. Each gateway card includes a name, MAC address, and model number, along with a small image of the device and an "Offline" status button.

Gateway Name	MAC Address	Model	Status
RTL-ICX35	02:42:ac:11:00:52	ProSoft ICX35-HWC	Offline
SupportEMEA	00:0d:8d:a6:00:41	ProSoft ICX35-HWC	Offline
icx35psftemea2	00:0d:8d:a6:00:43	ProSoft ICX35-HWC	Offline

Powered by **ProSoft Technology**

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

The screenshot displays the ProSoft Connect web client interface. The browser address bar shows the URL <https://www.prosoft.io/webclient/#team>. The page title is "Team". On the left, there is a dark sidebar with navigation icons for GATEWAYS, TEAM, ACTIVITY, ALERTS (with a notification badge), SUPPORT, and ACCOUNT. The main content area shows a list of team members in a grid. At the top right, there is an "Invite Team Members" button and a search bar. The team members listed are:

Name	Email	Access	Role
cbitsch	cbitsch@psft.com	All Access	Admin
jozefa ciechano...	jozefa.ciechanowska@c...	Connect	
jprat	jprat@psft.com	All Access	Admin
kh	kh@prosoft-technology...	All Access	Admin
Marcin Gorny	marcin.gorny@dswv.pl	Connect	
Mh	mh@psft.com	All Access	Admin
pmiksovsky	pmiksovsky@controltec...	Config & Connect	
ppagliari	ppagliari@prosoft-techn...	All Access	Admin
Pavel Vladyka	pvladyka@controltech.cz	Config & Connect	

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

Activity

Search

Event	Device	Description	Comments	User	Date
User		User logged out		pvladyka@controltech.cz	8 minutes ago @ 8:21:32 PM
User		User logged in		pvladyka@controltech.cz	9 minutes ago @ 8:20:02 PM
User		User Pavel Vladyka updated		pvladyka@controltech.cz	14 minutes ago @ 8:15:37 PM
User		User Pavel Vladyka updated		pvladyka@controltech.cz	19 minutes ago @ 8:10:49 PM
User		User logged in		pvladyka@controltech.cz	26 minutes ago @ 8:03:10 PM
Alarm	SupportEMEA	Gateway connection was lost		System	Today @ 5:44:02 PM
Alarm	SupportEMEA	Gateway connection was lost		System	Today @ 4:55:52 PM
Alarm	SupportEMEA	Gateway connection was restored		System	Today @ 4:53:35 PM
Alarm	SupportEMEA	Gateway connection was restored		System	Today @ 3:57:47 PM
Alarm	SupportEMEA	Gateway connection was lost		System	Today @ 3:54:17 PM
Alarm	SupportEMEA	Gateway connection was restored		System	Today @ 3:42:12 PM

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

The screenshot displays the ProSoft Connect web client interface. The browser address bar shows the URL <https://www.prosoft.io/webclient/#alert>. The main content area is titled "Alert" and contains a table with the following data:

Gateway Name	Serial Number	Description	Date
SupportEMEA	00:0d:8d:a6:00:41	Gateway connection was lost	
RTL-ICX35	02:42:ac:11:00:52	Gateway connection was lost	

Overlaid on the right side of the interface is a chat window titled "Conversations with ProSoft Connect". The chat history includes:

- A message from Keith: "Hi Pavel, ProSoft Connect just got bette..." (15m ago)
- A message from Connect: "Welcome to ProSoft Connect Let us k..." (15w ago)

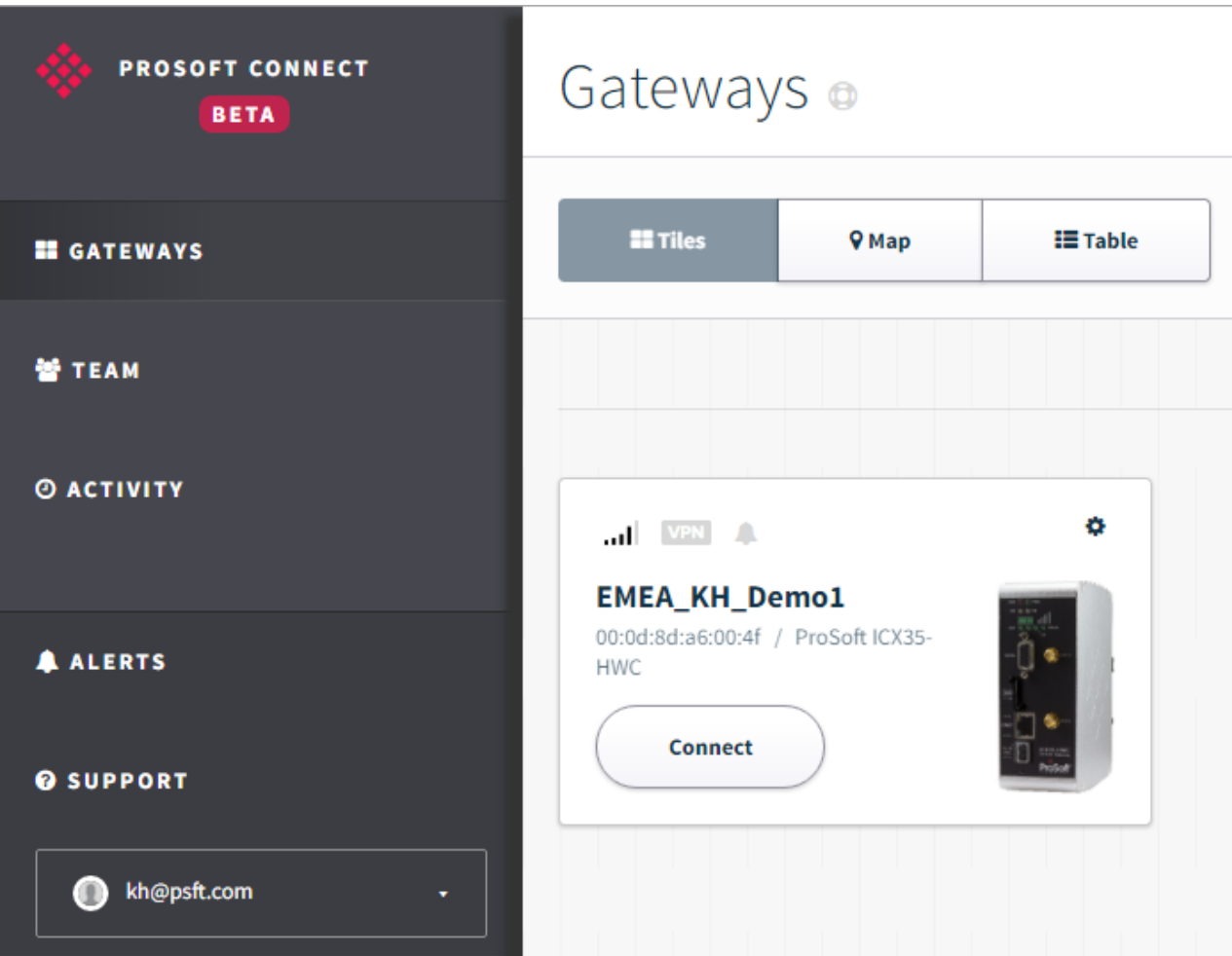
At the bottom of the chat window is a button labeled "New Conversation".

At the bottom of the main interface, it says "Powered by ProSoft Technology".

The left sidebar contains navigation icons for: GATEWAYS, TEAM, ACTIVITY, ALERTS (with a notification badge showing '2'), SUPPORT, and ACCOUNT.

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

## CHCETE VYZKOUŠET?



The screenshot displays the ProSoft Connect web interface. On the left is a dark sidebar with navigation options: GATEWAYS, TEAM, ACTIVITY, ALERTS, and SUPPORT. At the top of the sidebar is the ProSoft Connect logo and a BETA badge. The main content area is titled 'Gateways' and features three view options: Tiles (selected), Map, and Table. Below these options, a gateway card is visible for 'EMEA\_KH\_Demo1'. The card includes a signal strength indicator, a VPN icon, a notification bell, and a gear icon. The gateway name 'EMEA\_KH\_Demo1' is followed by the MAC address '00:0d:8d:a6:00:4f' and the model 'ProSoft ICX35-HWC'. A 'Connect' button is located at the bottom left of the card, and a small image of the gateway device is on the right.

- ❖ Navštivte [www.prosoft.io](http://www.prosoft.io) a zaregistrujte se.
- ❖ Po prvním přihlášení si projděte “guided tour”.

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

## PRŮMYSLOVÁ WiFi

802.11n (abgn) Fast Industrial Hotspots

802.11n (abgn) Fast Watertight Industrial Hotspots

802.11g and 802.11a High-Power Industrial Hotspots



# Hong Kong International Terminals

## Overview

### Customer

Hong Kong International Terminals Ltd.(HIT)

- HIT is a major container terminal operator in one of the world's busiest ports – Hong Kong Kwai Tsing Port

### Application description

- A project to install remote-control operations for the 29 Rubber-Tyred Gantry Cranes (RTGC)
- The project is the first time that this innovative technology is being implemented for RTGCs outside of Japan

### Customer needs

- Increase operational efficiency
- Enhance industrial safety
- Improve the working environment for crane operators



**Hongkong  
International Terminals**





# FOUNDRY

- Application description
  - Communication between crane and HMI
- Customer needs
  - Increase capacity of material
  - Know the weigh embedded on the crane in real time
  - Exchange critical data for producing the cast-iron expected
  - Harsh environment : dust, heat, vibrations, metal parts



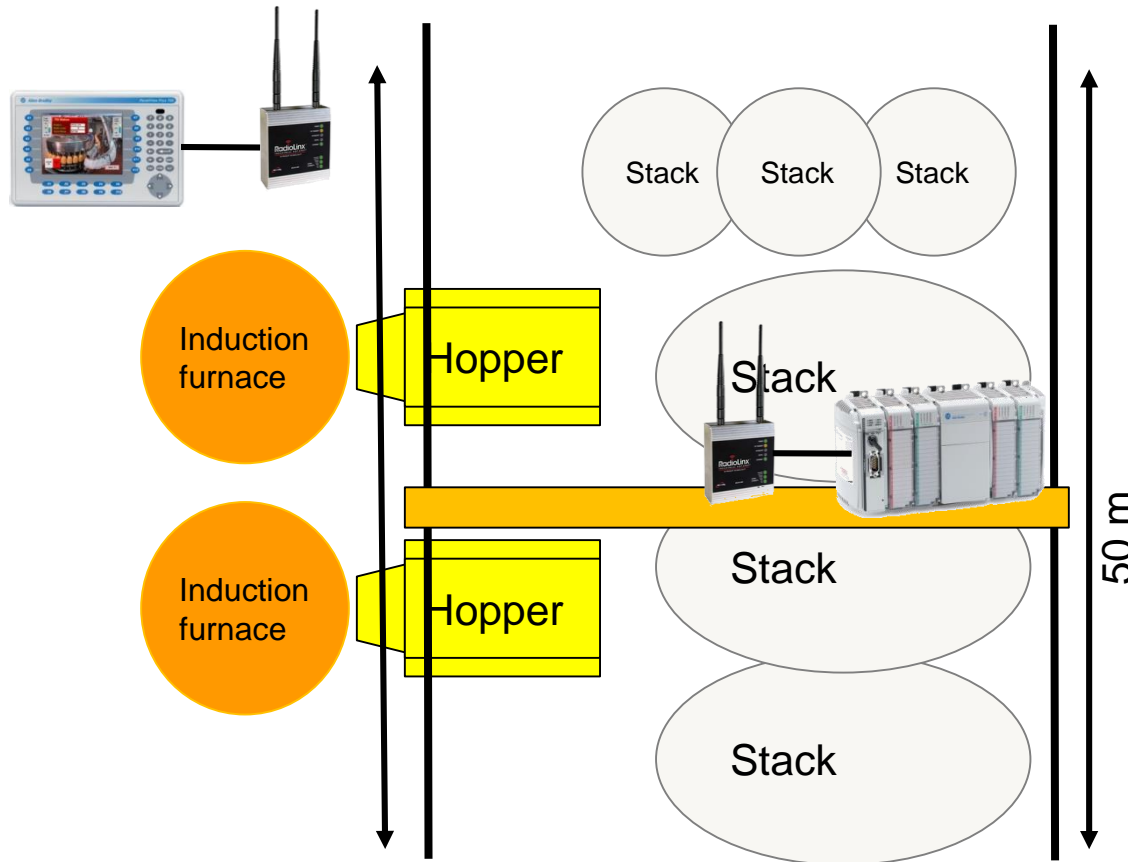
- Customer
  - Fonderies Dechaumont
- Location
  - Muret (Toulouse) - France
- ProSoft Technology's partner
  - Rockwell Automation



# ProSoft Technology Solution

## ❖ Wireless architecture

- ◆ Radios used : RLX-IHW



## ❖ Customer benefits

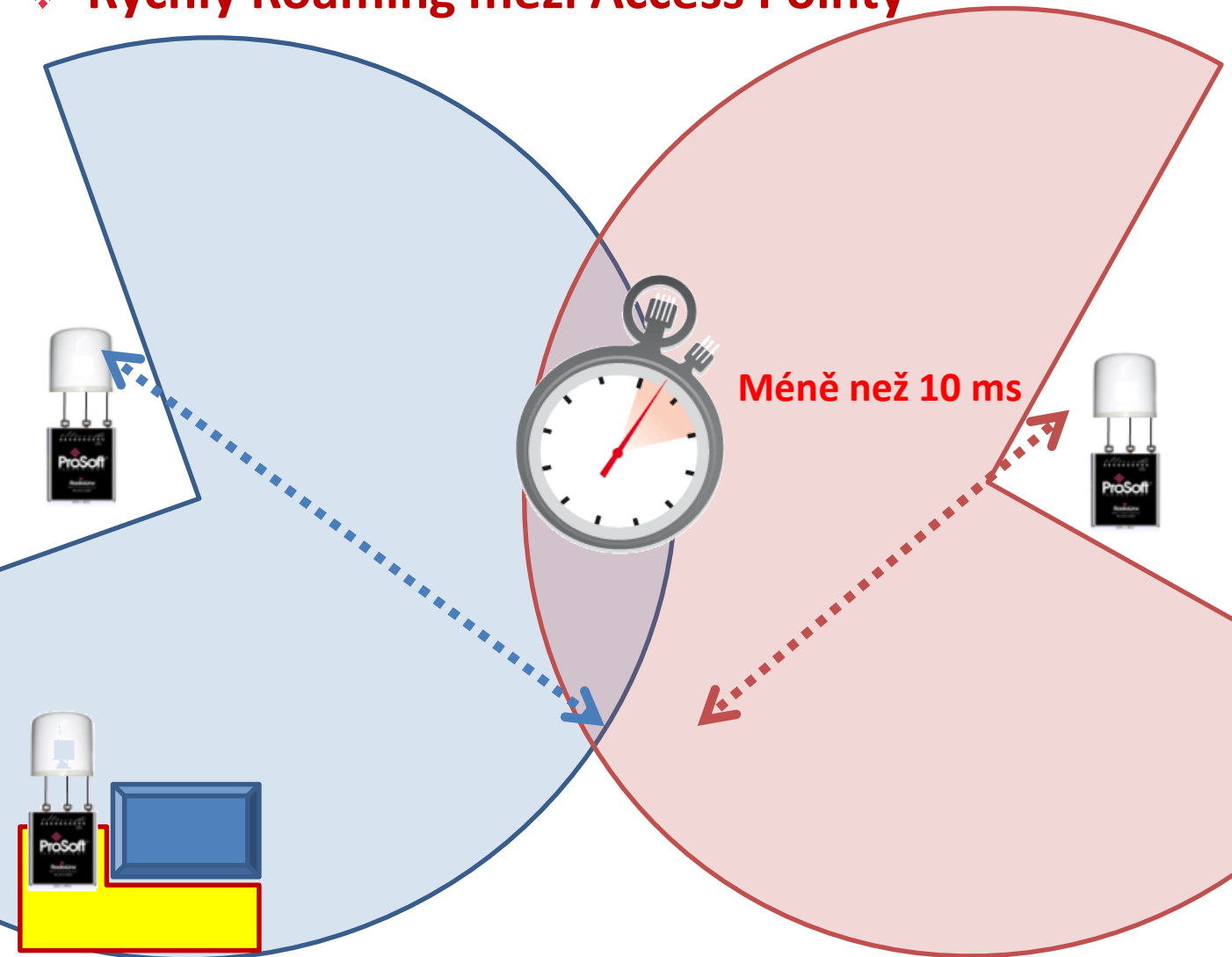
- ◆ End-User can use his new machine at full speed
- ◆ Cost saving  
According to the experience of the automation engineer, festooning cable would be more expensive  
Necessary to change them every 2/4 years
- ◆ Time saving  
No engineering  
Radios implemented in 2 hours
- ◆ Product quality improved  
With the right weight, the product expected will be generated
- ◆ Higher reliability network  
With cables, interferences would be a problem → Communication losses

# ProSoft Technology Solution



# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

## ❖ Rychlý Roaming mezi Access Pointy



jeřáby

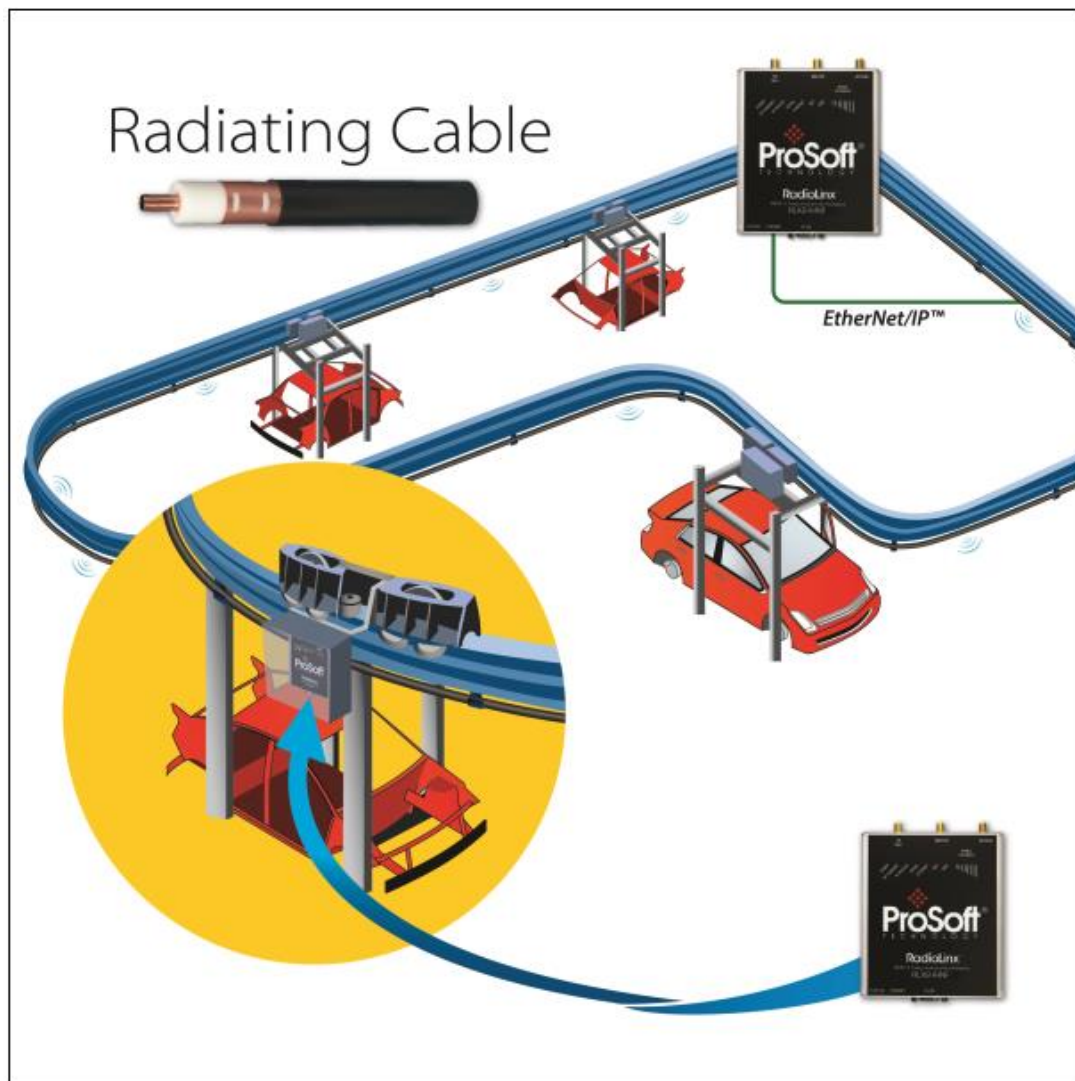
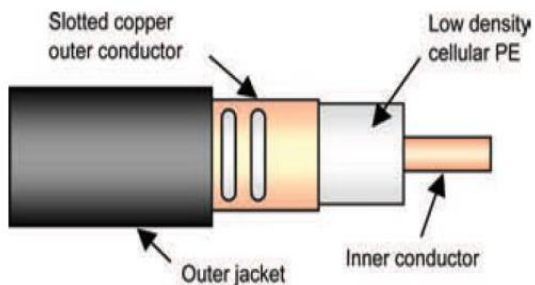


automobilky



automatické vozíky

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI



# Fiat Chrysler / RedViking Engineering

## Overview

### Customer

Fiat Chrysler / RedViking Engineering

- Fiat Chrysler Automobiles is a €110B global automotive manufacturer
- FCA's automotive plants in the US produce Chrysler, Jeep, Dodge and Ram branded vehicles
- RedViking Engineering in Plymouth, MI designs and builds flexible manufacturing solutions for various industries
- RedViking products include Autonomous Guided Vehicle and Skillet Conveyor systems used in the automotive industry

### Customer needs

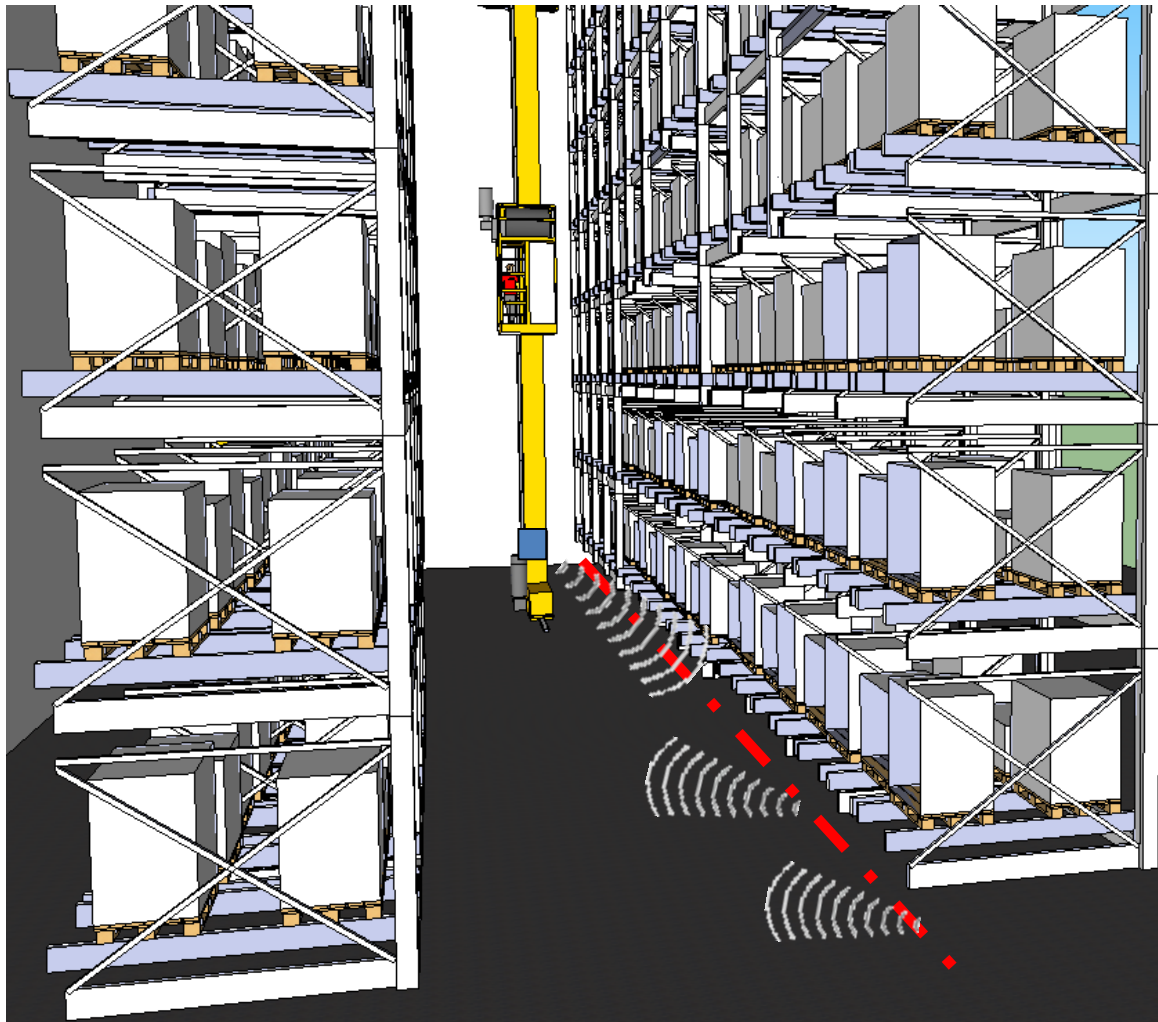
- FCA needs to reconfigure three plants in Sterling Heights, Belvedere, and Toledo to manufacture new Jeep and Chrysler models





**REDVIKING**  
BOLD ENGINEERING



# Automated warehouse



-  Patch Antenna Solution
-  Radiating Cable

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI







**Where**

**Automation**

**Connects**

## Point-to-Point Wireless I/O

**ProSoft**<sup>®</sup>  
TECHNOLOGY



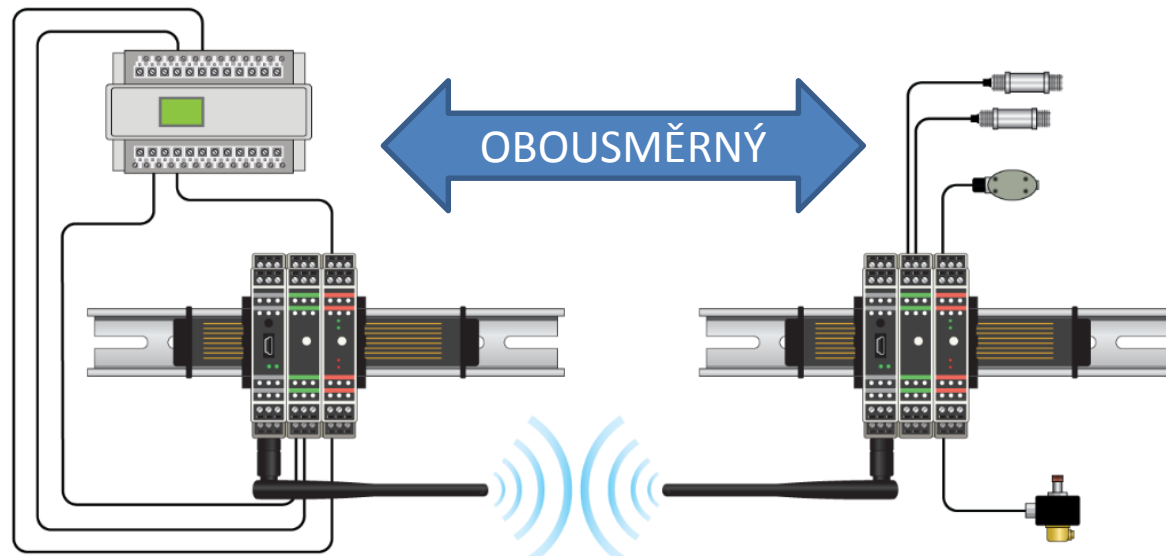
Bezdrátový přenos I/O – ideální řešení pro point-to-point aplikace. Snadné a jednoduché nasazení, které šetří čas, práci, náklady i zbytečné papírování a jednání s úřady.

**ControlTech**  
Industrial Automation

# PROSOFT TECHNOLOGY - WIRELESS I/O

## PRO JAKÉ ÚČELY:

- Nahrazuje tradiční kabelové I/O řešení
- Určený pro monitorování a jednoduché řízení – není určeno pro vysokorychlostní I/O
- Není určené pro nezasíťované I/O, vyžadující I/O interface v PLC, RTU apod.



# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

## BALENÍ

- ❖ 2x Radiomodul (spárovaný)
- ❖ 2x DataRails™
- ❖ 4x Ukončovací terminály
- ❖ 2x Kryt slotů
- ❖ 1x USB - Mini USB kabel
- ❖ Quick Start Guide
- ❖ Podpora až 5 I/O párů



# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

## I/O Moduly

- ❖ 3-30 VDC Digitální
- ❖ 4 In / 4 Out

- ❖ 4-20mA Analogové
- ❖ 2 In / 2 Out

- ❖ 0-10 V Analogové
- ❖ 2 In / 2 Out



Všechny I/O Moduly poskytují izolaci 2500 V r.m.s.

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

## Jednoduchá instalace



**Připevnit I/O Moduly**

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

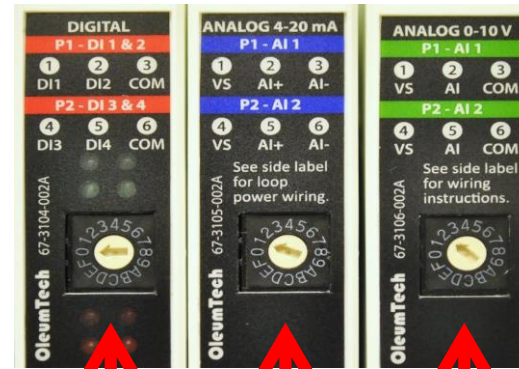
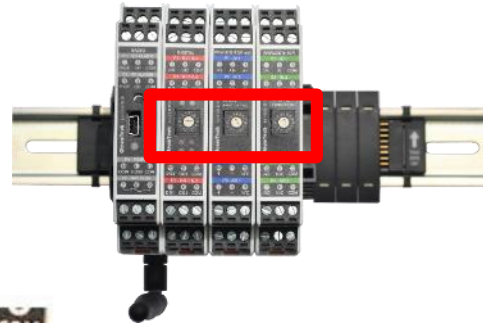
## Jednoduchá instalace



**Připevnit I/O Moduly**

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

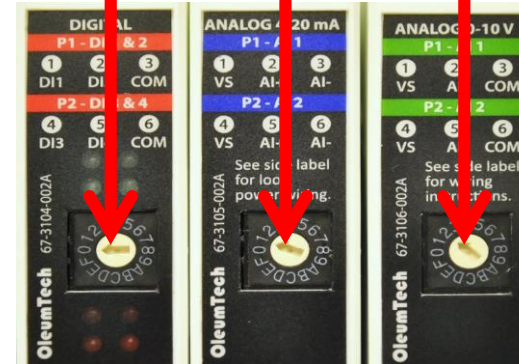
## Nastavení Switchů



0

1

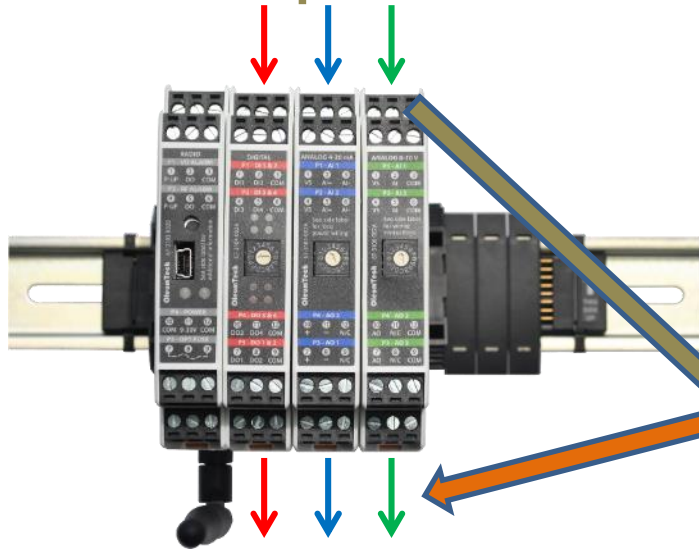
2



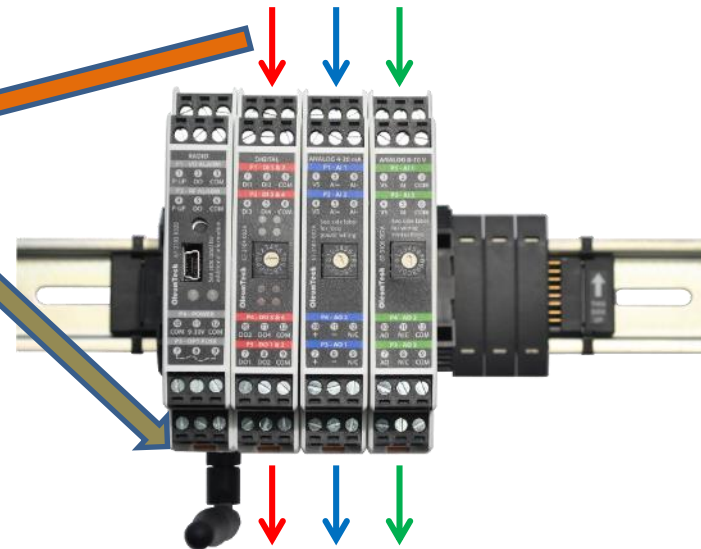
# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

## Vstupy a výstupy v každém modulu

PLC output modules to  
Inputs



Input devices / Transmitters



Outputs to PLC input modules

Output devices / Valves



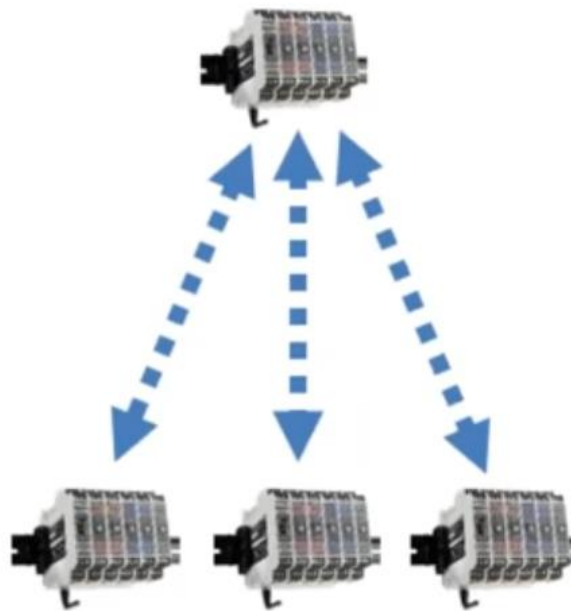
# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

## Multi-Point Wireless I/O Radio Kit

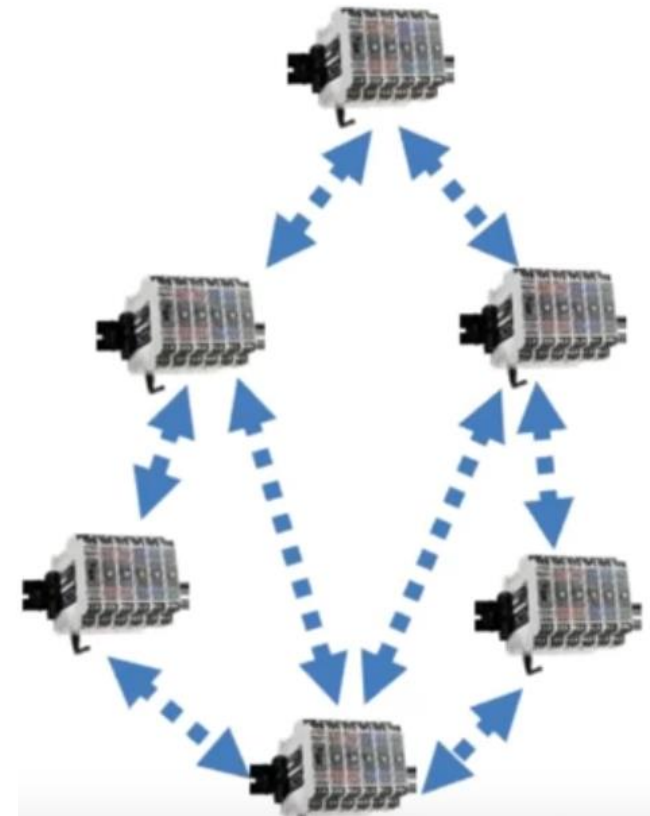
Point to Point



Point to Multi-point



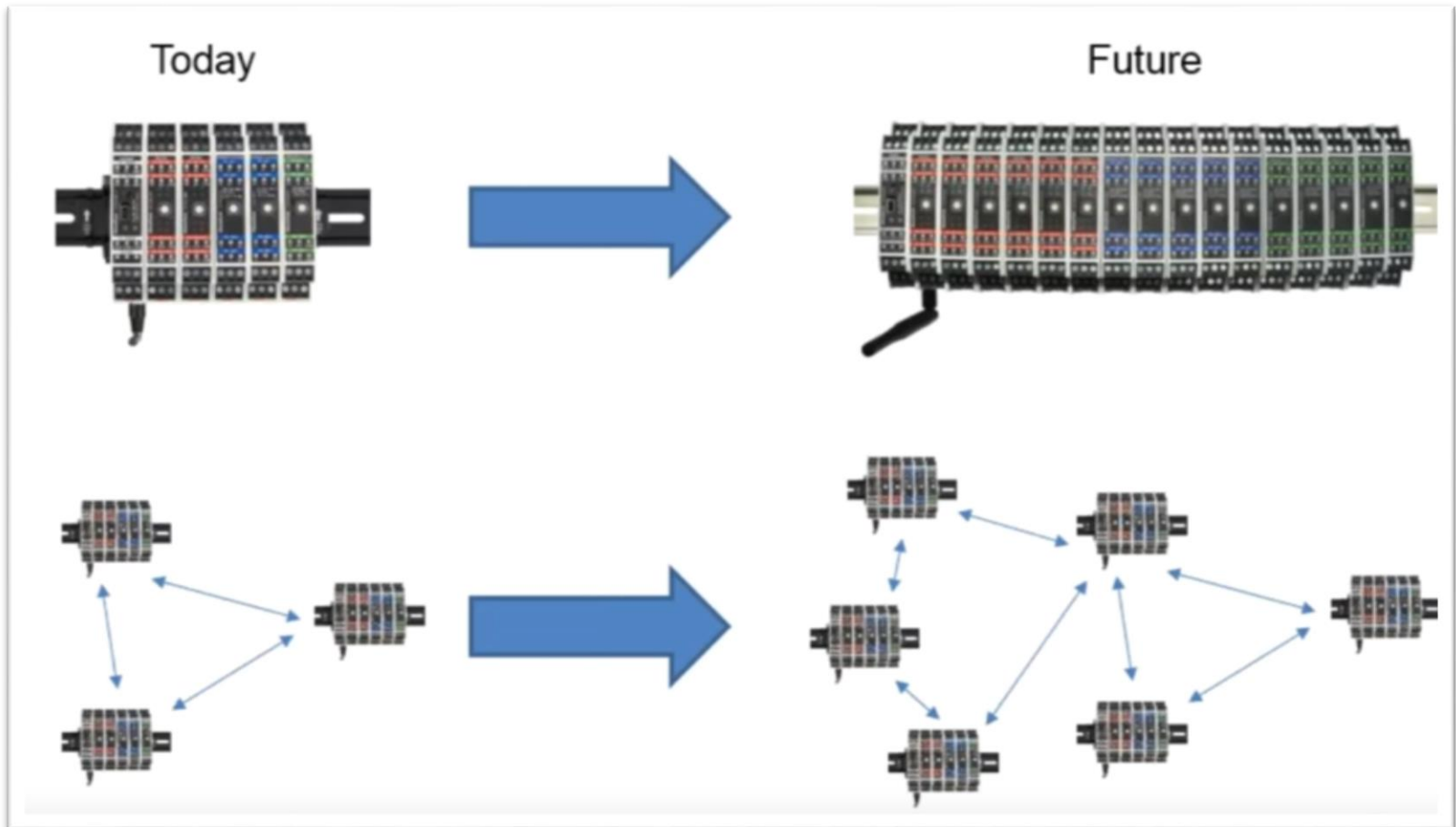
Peer to Peer



**Flexibilní RF síťová architektura**

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

## Multi-Point Wireless I/O Radio Kit



**Snadno rozšiřitelný systém**

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

## VÝHODY Wireless I/O

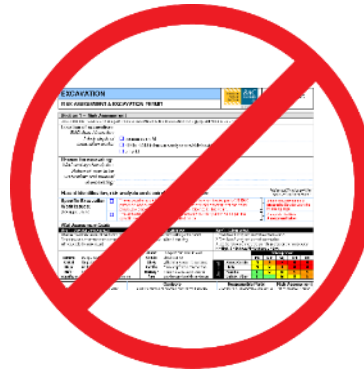
❖ Bez potřeby výkopových prací



❖ Bez potřeby budovat kabelové vedení



❖ Žádná povolení



❖ Žádná práce navíc



❖ Žádný software nebo programování



**ÚSPORA  
ČASU A NÁKLADŮ**

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

Where Automation Connects

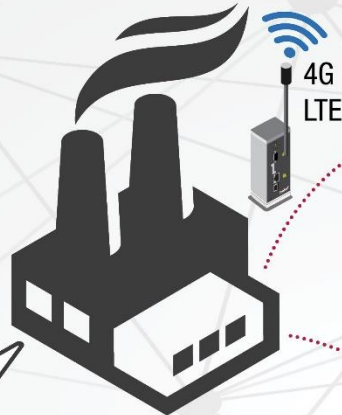
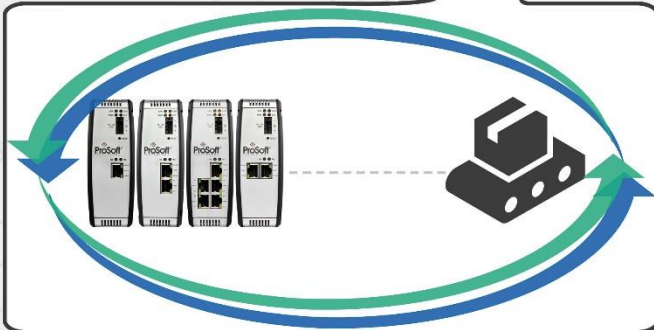
**ProSoft**<sup>®</sup>  
TECHNOLOGY

[www.prosoft-technology.com](http://www.prosoft-technology.com)

## CONNECTIVITY SOLUTIONS

For your industry!

**Stand Alone Gateways** allow your controllers to connect to various protocols (Ethernet/IP, Profibus, Profinet, Modbus, Modbus TCP...)



**Secure .Remote. Access.** Get to the information you need when you need it!

 Firewall



 Industrial Wi-Fi



**Connect wirelessly** your equipment, moving vehicles, rotating machines, storage buildings, control rooms...

**ControlTech**  
Industrial Automation

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI

<http://www.prosoft-technology.com/>

<http://psft.com>

English | Deutsch | Espanol | Portuguese | 中文 | Français | Pycckий

ProSoft TECHNOLOGY

PRODUCTS | SERVICES & SUPPORT | NEWS & EVENTS | WHERE TO BUY | ABOUT US

Remote Access | Rockwell Automation In-chassis | Schneider Electric In-chassis | **Gateways** | Industrial Wireless | ProSoft Software

PRODUCTS

Remote Access | Rockwell Automation In-chassis | Schneider Electric In-chassis | **Gateways** | Industrial Wireless | ProSoft Software

Gateways

Product Selector

137 Search Results

Filter by Protocol 1

Select one...

Select one...

- A-B Remote I/O (12)
- ASCII Serial (9)
- BACnet (5)
- C Programmable Serial (1)
- CC-Link Local Station & Intelligent Device (2)
- DCSNet (1)
- DF1 Master/Slave (15)
- DF1 Serial Port Expander Gateway (1)
- DH-485 (4)
- DNP 3.0 Master (5)
- DNP 3.0 Slave (6)
- DNP 3.0 over Ethernet (5)
- Data Highway Plus (DH+) (1)
- DeviceNet (2)
- EtherNet/IP (46)
- GE Ethernet Global Data (2)
- GE Genius (1)
- Gareco (2)
- HART Analog (4)

Support?

EtherNet/IP to Texas Instruments AN-X-TI

EtherNet/IP to PROFIBUS DPV1 M... 5204-DFNT-PDPMV1

EtherNet/IP to S... 5205-DFNT-PDPS

EtherNet/IP to Modbus Master/S... 5202-DFNT-MCM4

EtherNet/IP to Modbus Master/S... 5201-DFNT-MCM

EtherNet/IP to IEC 60870-5-104... 5201-DFNT-104S

English | Deutsch | Espanol | Portuguese | 中文 | Français | Pycckий

ProSoft TECHNOLOGY

PRODUCTS | SERVICES & SUPPORT | NEWS & EVENTS | WHERE TO BUY | ABOUT US

Remote Access | Rockwell Automation In-chassis | Schneider Electric In-chassis | **Gateways** | Industrial Wireless | ProSoft Software

PRODUCTS

Remote Access | Rockwell Automation In-chassis | Schneider Electric In-chassis | **Gateways** | Industrial Wireless | ProSoft Software

Gateways

Product Selector

46 Search Results

Filter by Protocol 1

EtherNet/IP (46)

Filter by Protocol 2

Select one...

Select one...

- A-B Remote I/O (2)
- ASCII Serial (2)
- BACnet (2)
- CC-Link Local Station & Intelligent Device (1)
- DCSNet (1)
- DF1 Master/Slave (2)
- DH-485 (1)
- DNP 3.0 Master (1)
- DNP 3.0 Slave (1)
- DNP 3.0 over Ethernet (1)
- Data Highway Plus (DH+) (1)
- GE Ethernet Global Data (1)
- GE Genius (1)
- Gareco (2)
- HART Analog (2)
- HART Multi-drop (1)
- IEC 61850 Client (2)
- IEC60870-5-104 Client (1)
- IEC60870-5-104 Server (1)

EtherNet/IP to Texas Instruments AN-X-TI

EtherNet/IP to PROFIBUS DPV1 M... 5204-DFNT-PDPMV1

EtherNet/IP to PROFIBUS DP Sta... 5205-DFNT-PDPS

EtherNet/IP to Modbus Master/S... 5202-DFNT-MCM4

EtherNet/IP to Modbus Master/S... 5201-DFNT-MCM

EtherNet/IP to IEC 60870-5-104... 5201-DFNT-104S

Více než 160 protokolových bran

ControlTech  
Industrial Automation

# TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI



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Gateways > EtherNet/IP to Modbus Serial 4 Port



### EtherNet/IP to Modbus Serial 4 Port

#### PLX31-EIP-MBS4

The EtherNet/IP® to Modbus Serial gateway offers bi-directional data transfers between Modbus Serial and the EtherNet/IP network. Our EtherNet/IP Driver uses Class 1 I/O connections and/or Class 3 Message instructions. Protocol conversion gateways are the ideal solution for distributed networks when adding a remote rack becomes too costly.

The PLX31-EIP-MBS4 gateways are stand-alone DIN-rail mounted gateways that provide one Ethernet port for communication, allowing for remote configuration and diagnostics, and up to four (4) serial communication ports. The PLX30 gateways also come with an SD Card slot (SD card optional) for storing configuration files. In the event of a failure the SD card can be transferred to another gateway reducing downtime. These gateways also come with a wide input power range (10 Vdc – 36 Vdc), and an extended temperature range (-25°C to 70°C). The PLX30 gateways include all the necessary cables required for communication.



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#### Features and Benefits

- 4000 Word database
- Multiple I/O Connections
- Status data
- Node Health
- 10/100 Mb Ethernet port with Auto Cable Crossover Detection
- Data Analyzer for Modbus Serial Network

### ETHERNET/IP TO MODBUS SERIAL 4 PORT

#### PLX31-EIP-MBS4

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#### Downloads

PLX31-EIP-MBS4 Datasheet	539.58 kB	Last Modified 10/05/2016
PLX30 Gateway Family FAQ	569.86 kB	Last Modified 11/05/2014
PLX3x EDS Files 1.2	45.91 kB	Last Modified 10/12/2015
PLX3x User Manual	4.40 MB	Last Modified 03/15/2017
PLX30 Family CAD Files	67.72 MB	Last Modified 03/09/2017
ProSoft Configuration Builder		

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#### Videos



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Rockwell Automation In-chassis

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Rockwell Automation In-chassis > PROFIBUS DP-V1 Master Network Interface Module for CompactLogix

Active Mature

**PROFIBUS DP-V1 Master Network Interface Module for CompactLogix**

MVI69-PDPMV1

**Active Mature:** Product is fully supported, but a newer product or family exists. For new applications use the [ILX69-PRM](#)

The PROFIBUS DPV1 Master module is a powerful communication interface for Rockwell Automation® CompactLogix / MicroLogix® processors. Developed under license from Rockwell Automation, the module incorporates proprietary backplane technology that enables powerful data exchange with CompactLogix / MicroLogix processors.

The module supports complete Master specifications according to IEC 61158. Acyclic parameter data can be transferred with Class 1 or Class 2 DPV1 services, allowing processors to easily communicate with slave devices supporting PROFIBUS DPV0/V1 protocol.

The module acts as an input/output module between the PROFIBUS network and the CompactLogix / MicroLogix processor. Data transfer from the processor is asynchronous with the I/O data transfer on the PROFIBUS network.

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**Architectures**

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