

ControlTech



Authorised
Distributor

A ROCKWELL AUTOMATION PARTNER

DATOVÁ KOMUNIKACE V PRŮMYSLU

VLADYKA PAVEL



ProSoft: InRAX ,Wireless & Gateways

ProSoft Technology



Více než 185
Plug-In řešení pro Rockwell



Více než 160
protokolových bran



Řešení
bezdrátové komunikace



ProSoft: InRAX ,Wireless & Gateways

ProSoft Technology



Rockwell Automation In-chassis

Product Selector

Filter by Platform

Select one.. ▾

Filter by Protocol or Function

Select one.. ▾

Include Discontinued

[Clear Entire Search](#)

Search by Product Reference

Search Products..

Download Catalog

Select Catalog ▾



COMPACTLOGIX



CONTROLLOGIX



FLEX I/O



PLC



POINT I/O



SLC

- ASCII (Ethernet) (2)
- ASCII (Serial) (2)
- BASIC (1)
- C Programmable (1)
- DF1 Master/Slave (1)
- DNP 3.0 Master/Slave (3)
- DNP over Ethernet (2)
- EtherNet/IP (2)
- FA Control Network (2)
- GE Ethernet Global Data (2)
- IEC 60870-5-101 Master (1)
- IEC 60870-5-101 Slave (1)
- IEC 60870-5-104 Server (2)
- IEC 61850 (1)
- Limiter Master (1)
- Liquid & Gas Flow Computer (2)
- Modbus Master/Slave (8)
- Modbus TCP/IP (7)
- PROFIBUS DP Slave (7)
- PROFIBUS DPV1 Master (5)

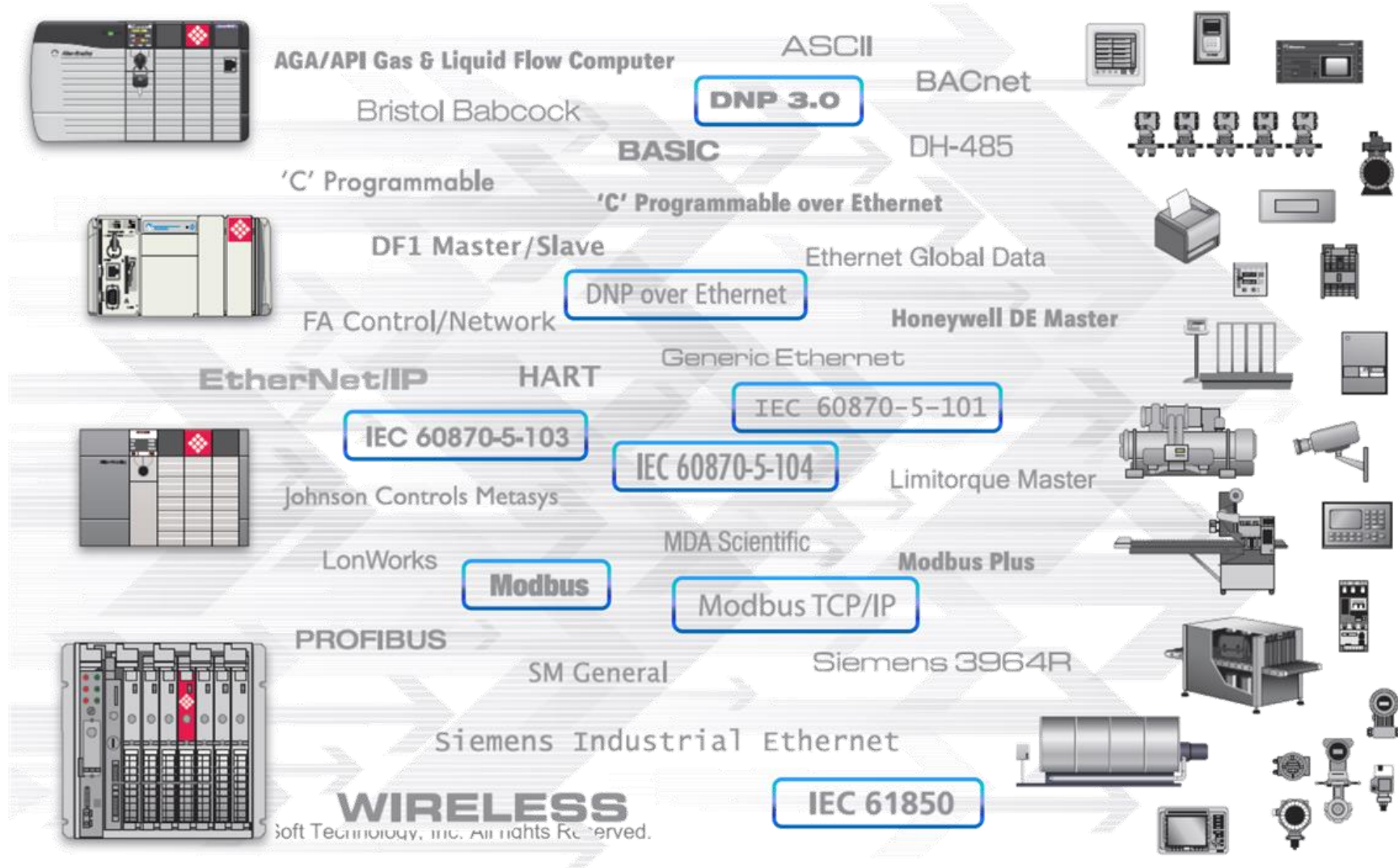
Samostatné protokolové brány

- Protocols:
 - Modbus TCP
 - Modbus RTU
 - Energy Protocols
 - Profibus
 - Profinet
 - Siemens Industrial Ethernet
 - HART
 - OPC-UA
 - Migration/ Legacy Protocols: DH+, Devicenet, ControlNet, RIO, DH485, DF1
 - Building Automation protocols: BACNet, Lonworks, Metasys



Více než 160 typů protokolových bran

Protokolové brány pro energetiku



- Solar Energy
- Water Energy
- Water & Wastewater
- Energy Distribution
- Wind Energy

Samostatné protokolové brány

- **Výhody:**

- Konfigurace uložená na SD kartě
 - Umožňuje obnovení nastavení
- Provozní teplota
 - -25°C až 70°C
- Široký rozsah vstupního napětí
 - 10 V až 36 V

- **Certifikace**

- UL Class 1 Division 2
- CB Safety
- ATEX
- CE Mark
- ODVA EtherNet/IP

- **Všechny potřebné kabely jsou součástí balení**

- Ethernet
- RJ45 – DB9



Více než 160 typů protokolových bran

GATEWAYS



English | Deutsch | Espanol | Portugues | 中文 | Français | Русский

ProSoft TECHNOLOGY

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

PRODUCTS

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







Gateways

137 Search Results

Product Selector

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)

 EtherNet/IP to Texas Instruments AN-X-TI 5202-DFNT-MCM4	 EtherNet/IP to PROFIBUS DPV1 Master/Slave 5204-DFNT-PDPMV1	 EtherNet/IP to PROFIBUS DP Slave 5205-DFNT-PDPS
 EtherNet/IP to Modbus Master/Slave 5201-DFNT-MCM	 EtherNet/IP to Modbus Master/Slave 5201-DFNT-MCM	 EtherNet/IP to IEC 60870-5-104 Client/Server 5201-DFNT-104S

Support?

English | Deutsch | Espanol | Portugues | 中文 | Français | Русский

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PRODUCTS

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

Gateways

46 Search Results







Product Selector

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 5202-DFNT-MCM4	 EtherNet/IP to PROFIBUS DPV1 Master/Slave 5204-DFNT-PDPMV1	 EtherNet/IP to PROFIBUS DP Slave 5205-DFNT-PDPS
 EtherNet/IP to Modbus Master/Slave 5202-DFNT-MCM4	 EtherNet/IP to Modbus Master/Slave 5201-DFNT-MCM	 EtherNet/IP to IEC 60870-5-104 Client/Server 5201-DFNT-104S



PRODUCTS

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

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.

Printer Friendly Page

How to Buy Find a Distributor

- Architectures
- Features and Benefits**
- Hardware
- Downloads
- Protocols
- Videos
- Certifications

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**

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.

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Printer Friendly Page

How to Buy Find a Distributor

- Architectures
- Features and Benefits
- Hardware
- Downloads**
- Protocols
- Videos
- Certifications

Downloads	Size	Last Modified
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		

- Architectures
- Features and Benefits
- Hardware
- Downloads
- Protocols
- Videos**
- Certifications

ProSoft's PLX30 Ethernet and Serial Gateways

Setup Tutorial for the EtherNet/IP to Modbus Serial Gateway

Understanding Client, Server & I/O Messaging for Ethernet Networks

Data Organization in ProSoft Modules and Gateways

Industrial Automation Training Videos

ProSoft Technology has a number of educational and tutorial videos to help our customers in the setup and configuration of our products. These are all available free of charge on our website and on YouTube, so that you can watch them at your convenience. We are always making more tutorial videos so if you do not see the one you are looking for, give us a call.

- Educational Videos
- Featured Videos
- ControlLogix Videos
- CompactLogix Videos
- Point I/O Videos
- Gateway Videos
- Wireless I/O Videos
- Cellular Videos
- 802.11 Wifi Videos
- Tech-Tips
- Quantum

Educational Videos



10 Things to Consider When Deploying Industrial Wireless Communications

Industrial wireless communications can bring several benefits to your facility – but planning before deployment is a must. In this educational video, you'll find out the factors you need to consider from the best radio



Designing and Installing an RS485 Serial Network

Due to the wide range of an RS485 serial network, it has become the basis of frequently used industrial automation protocols such as Modbus® RTU, DH-485, and Optomux. This educational video gives you tips on designing, installing, and troubleshooting an RS485 serial

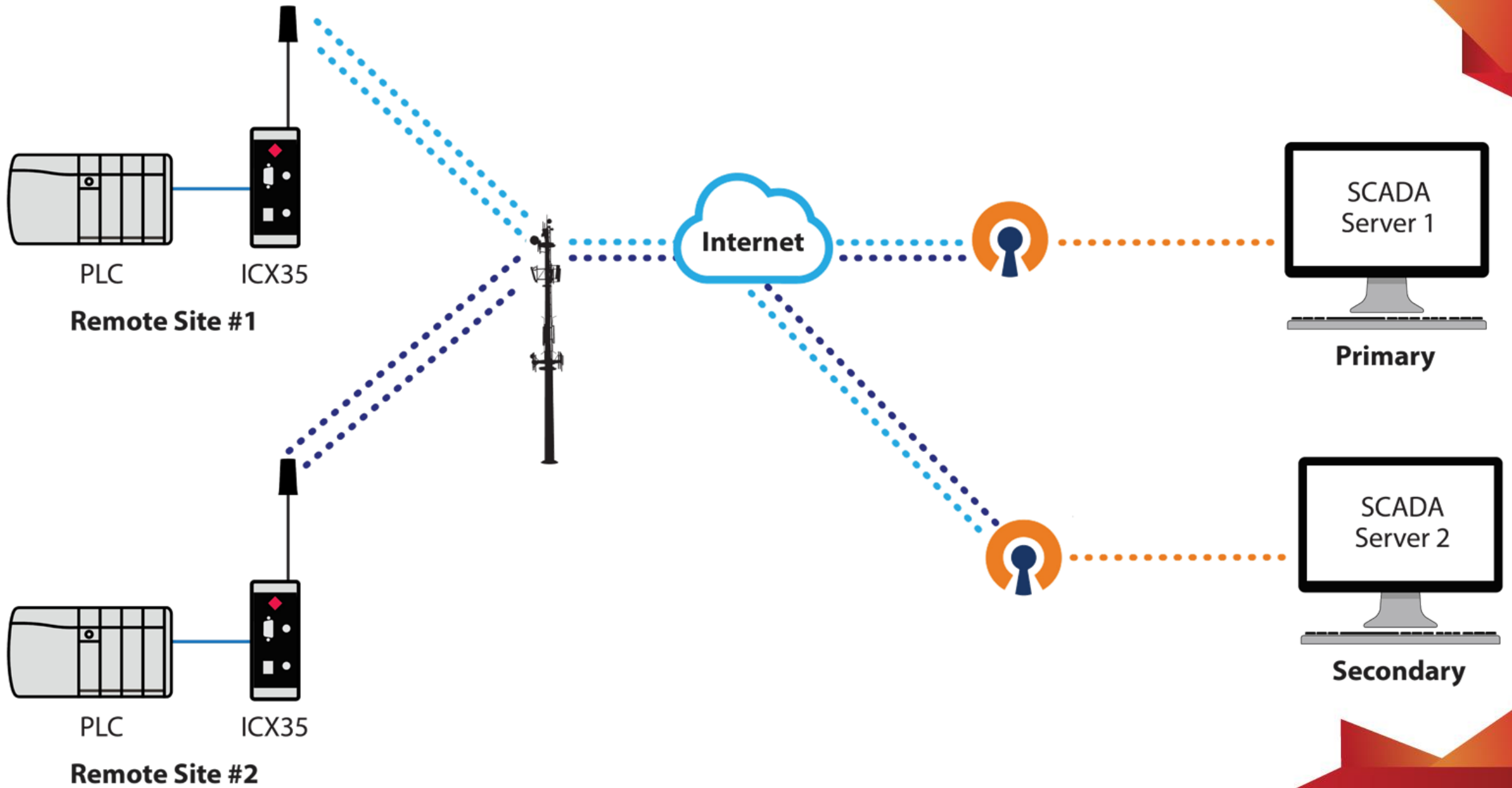




ICX35-HWC

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



Srovnání VPN



- ❖ **Vysoce bezpečný.**
- ❖ Vysoce konfigurovatelný.
- ❖ Kompatibilní s různými šifrovacími algoritmy.
- ❖ Schopnost obejít většinu firewallů.

- ❖ **Složitější nastavení.**
- ❖ Vyžaduje software třetích stran.
- ❖ Podpora pro stolní počítače je skvělá, avšak zaostává na mobilních zařízeních.

IPSEC

- ❖ **Snadné nastavení.**
- ❖ Typicky považováno za bezpečné.
- ❖ K dispozici na všech moderních přístrojích a operačních systémech.

- ❖ **Pomalejší než OpenVPN.**
- ❖ Může být problematické, pokud jsou použity s omezujícími firewally.
- ❖ **Je pravděpodobné, že NSA záměrně oslabila protokol.**

PŘÍLIŠ SLOŽITÉ NASTAVENÍ???

VPN and Remote Access >> LAN to LAN

Profile Index : 1

1. Common Settings

Profile Name

Enable this profile

VPN Connection Through

Netbios Naming Packet

Multicast via VPN
(for some IGMP,IP-Came

2. Dial-Out Settings

Type of Server I am calling

- ISDN
- PPTP
- IPsec Tunnel
- L2TP with IPsec Policy

Dial Number for ISDN or
Server IP/Host Name for VPN.
(such as 5551234, draytek.com or 123.45.67.89)

210.XX.XX.18

Username
Password
PPP Authentication
VJ Compression

IKE Authentication Met

Pre-Shared Key
 IKE Pre-Shared Key

4. GRE over IPsec Settings

Enable IPsec Dial-Out function GRE over IPsec
 Logical Traffic My GRE IP 192.168.

5. TCP/IP Network Settings

My WAN IP 0.0.0.0
Remote Gateway IP 0.0.0.0
Remote Network IP 172.17.1.0
Remote Network Mask 255.255.255.0
Local Network IP 10.1.1.0
Local Network Mask 255.255.255.0

More

Profile Index : 1

1. Common Settings

Profile Name wan-2

Enable this profile

VPN Connection Through: W

Netbios Naming Packet

Multicast via VPN
(for some IGMP,IP-Camera,DR

2. Dial-Out Settings

Type of Server I am calling

- ISDN
- PPTP
- IPsec Tunnel
- L2TP with IPsec Policy

Dial Number for ISDN or
Server IP/Host Name fo
(such as 5551234, dray

Call Direction Both Dial-Out Dial-In
 Always on
Idle Timeout 300 second(s)

4. GRE over IPsec Settings

Enable IPsec Dial-Out function GRE over IPsec
 Logical Traffic My GRE IP 192.168.6.2 Peer GRE IP 192.168.6.1

5. TCP/IP Network Settings

My WAN IP 0.0.0.0
Remote Gateway IP 0.0.0.0
Remote Network IP 172.17.1.0
Remote Network Mask 255.255.255.0
Local Network IP 10.1.1.0
Local Network Mask 255.255.255.0

RIP Direction Disable
From first subnet to remote network, you have to do
Route
 Change default route to this VPN tunnel (Only single WAN supports this)

General Setup

Status Enable Disable
Profile Name toVigor2950

- 1 wan-1 IPsec 218.XX.XX.18 (172.17.1.0)
 - 2 wan-2 IPsec 218.XX.XX.18 (172.17.1.0)
- Backup Load Balance

Add Edit Delete

IPsec Security Method

Medium(AH)
 High(ESP) DES without Authentication
Advanced



Machine to Machine M2M

- ❖ M2M je obousměrný bezdrátový přenos dat mezi zařízeními, řídicími systémy a aplikacemi, ke kterým mají přístup oprávnění koncoví uživatelé.
- ❖ Řídicí systémy a aplikace komunikují se zařízeními zcela automaticky podle určených pravidel.



· · T · · Mobile ·





What would you have time to do without constant travel for minor troubleshooting?

Find out with ProSoft Connect, which is designed to bring you streamlined, secure access to your remote equipment from anywhere you are at any time. Log in to monitor your or your clients' gateways, and troubleshoot issues – all without stepping on a plane.



CELLULAR WIRELESS

PRODUCT DETAILS



NETWORK BRIDGE

PRODUCT DETAILS



DATALOGGER

PRODUCT DETAILS

SRA

SECURE REMOTE ACCESS

PDN

PERSISTENT DATA NETWORK

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ProSoft CONNECT

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

HMI
192.168.0.30

PAC/PLC
192.168.0.20

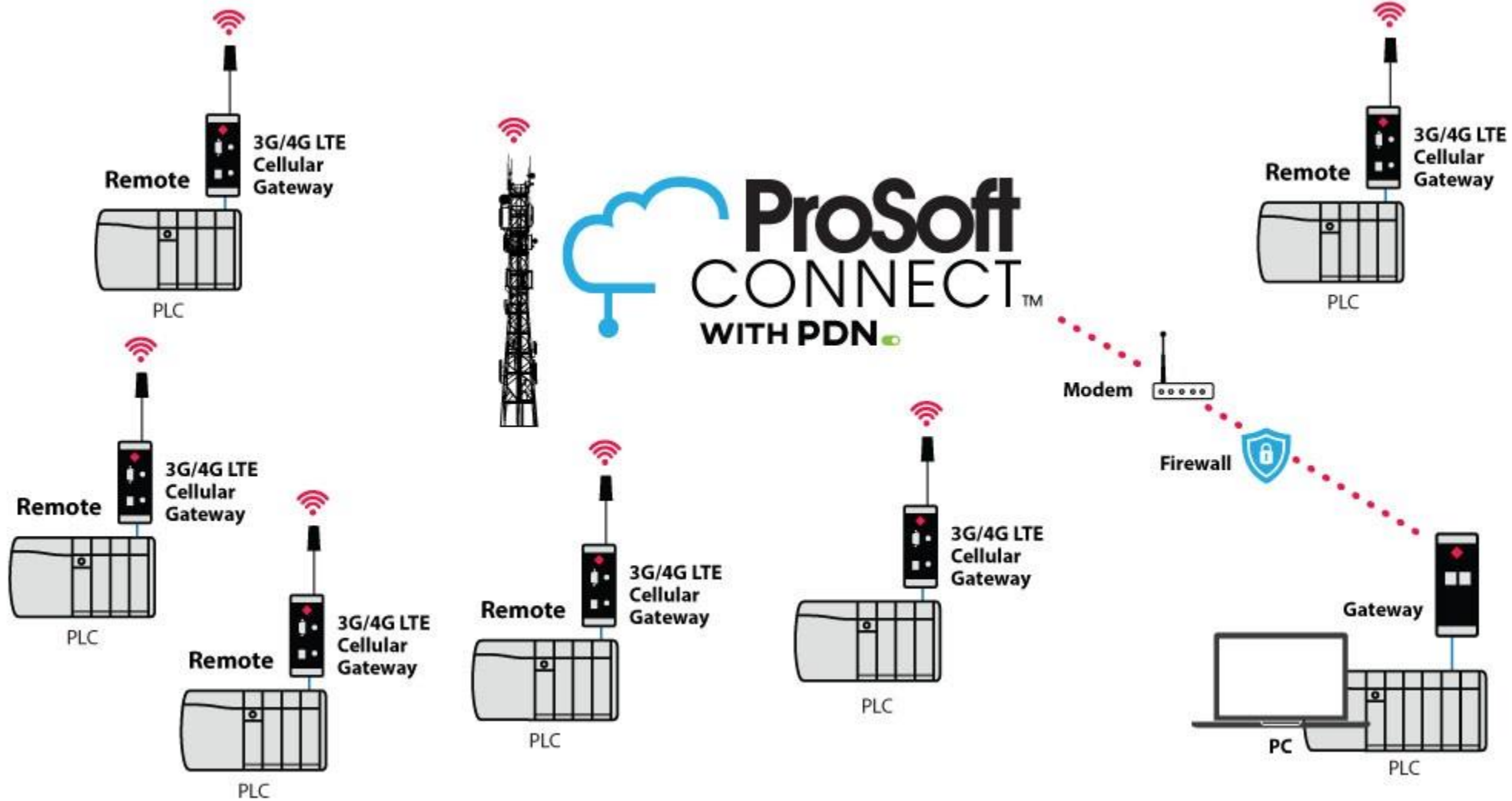
Firewall

10.12.1.103

3G/4G LTE
Cellular
Gateway

PLC

Server
USA
Frankfurt
Singapore
Sydney
Sao Paulo



Bezpečná, Cloud-Native Platforma pro IIoT



Vysoká spolehlivost



Přístup kamkoliv



Žádný PC Software



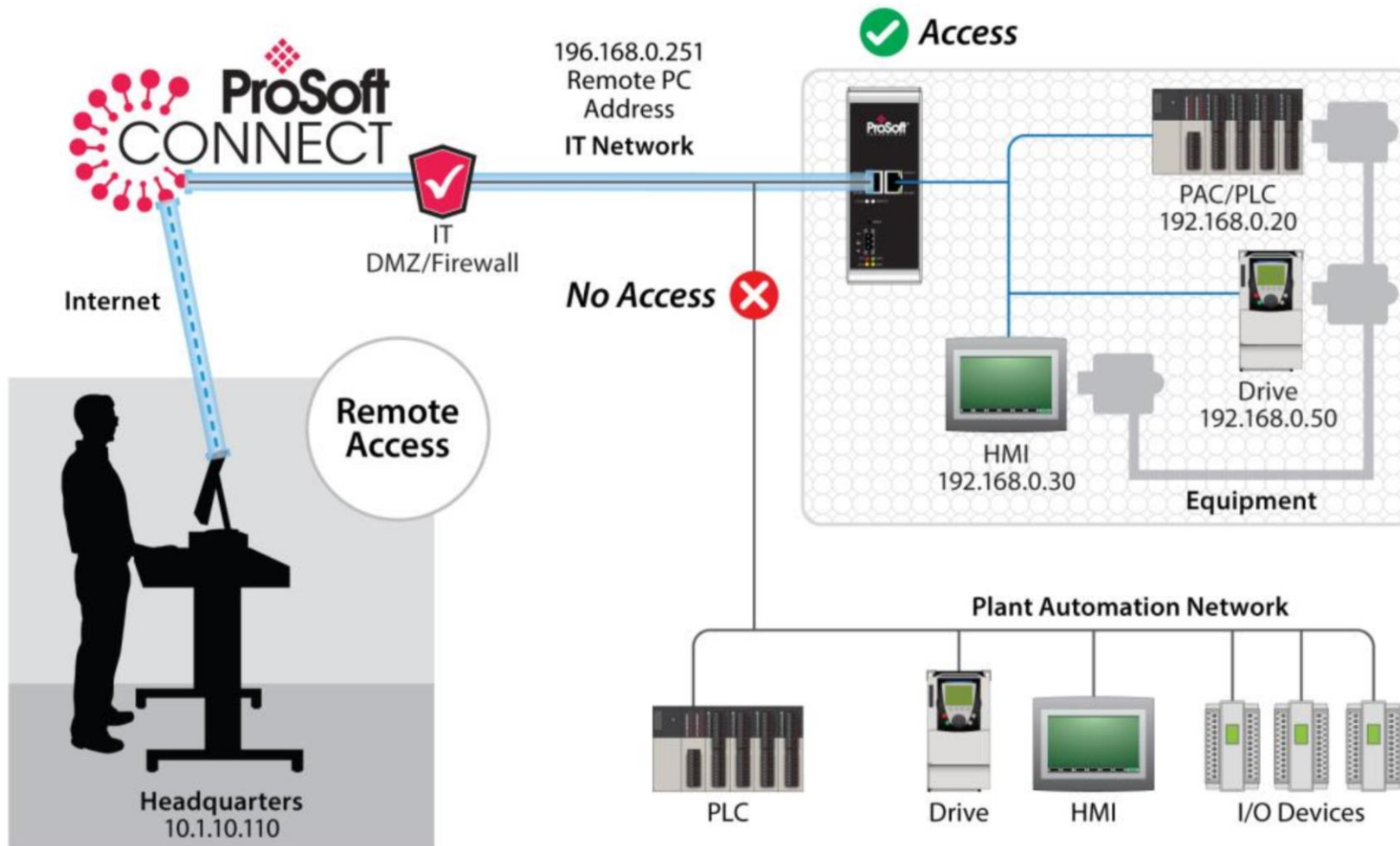
Jednoduché použití



Bezpečné

- ❖ BEZ NUTNOSTI POŘÍZENÍ STATICKÉ, VEŘEJNÉ IP ADRESY.
- ❖ KONFIGURACE GSM ROUTERU ULOŽENA NA CLOUDU.

Network Bridge PLX35-NB2



ProSoft Connect Lite App



On The Go

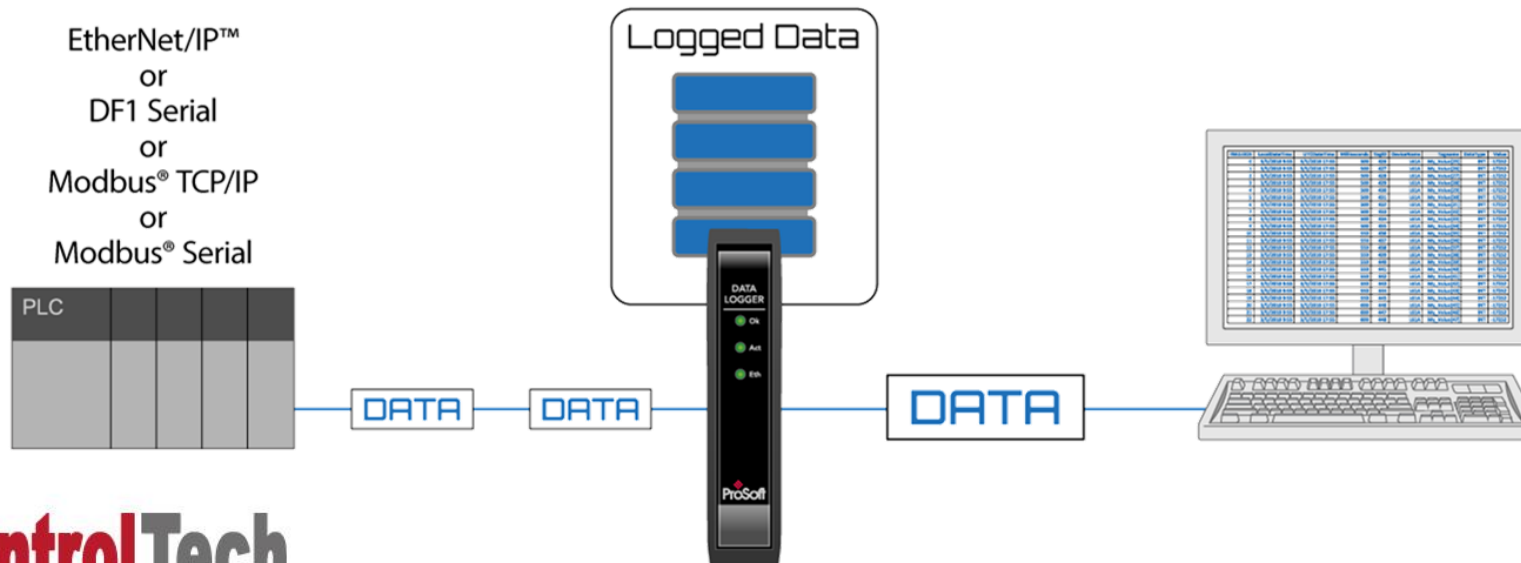
PROSOFT CONNECT LITE APP

Download the ProSoft Connect Lite App on the App Store or on Google Play.



Data Logger PLX51-DL-232

- ❖ Maximální počet záznamů: **16 777 216**
- ❖ Minimální interval logování: **50 ms**
- ❖ Podporované datové typy: **BOOL, SINT, INT, DINT REAL**
- ❖ Zdroj dat: **Logix Tags, DF1 soubor, Modbus (RTU a TCP/IP)**
- ❖ Export ve formátu **CSV**
- ❖ Vestavěný webserver – **diagnostika a konfigurace**
- ❖ Dva módy zápisu dat – **do zaplnění databáze nebo přepis nejstarších dat**





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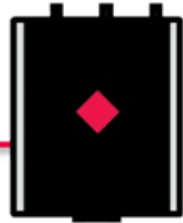
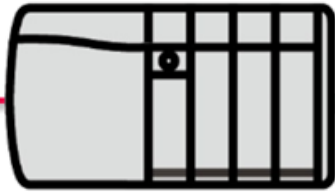
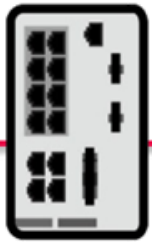


Enterprise Network

EtherNet/IP™



PROFI[®]
NET



Plant Network

- PLC



- RLX2



ControlTech

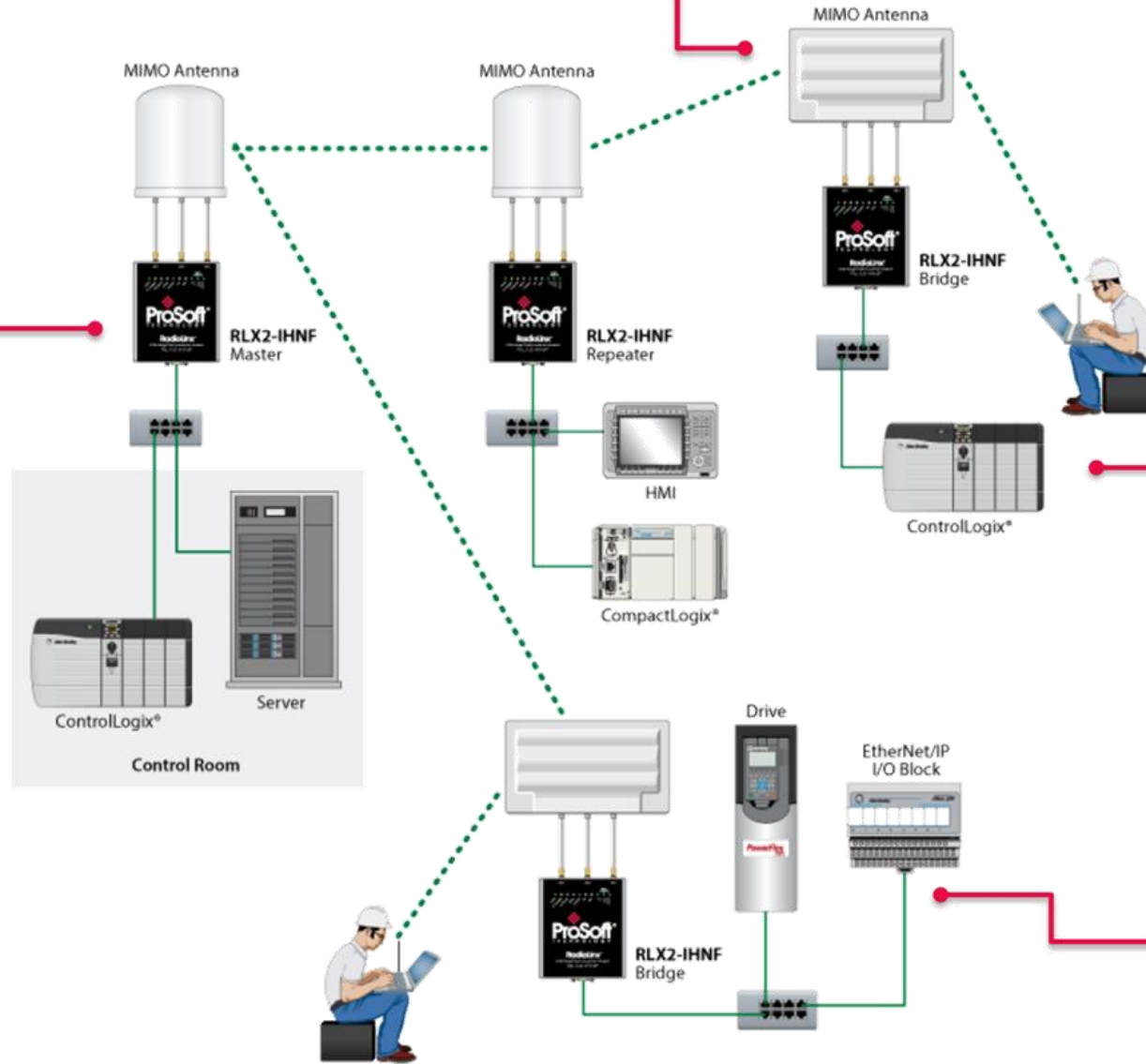


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Repeaters act like APs

One Master

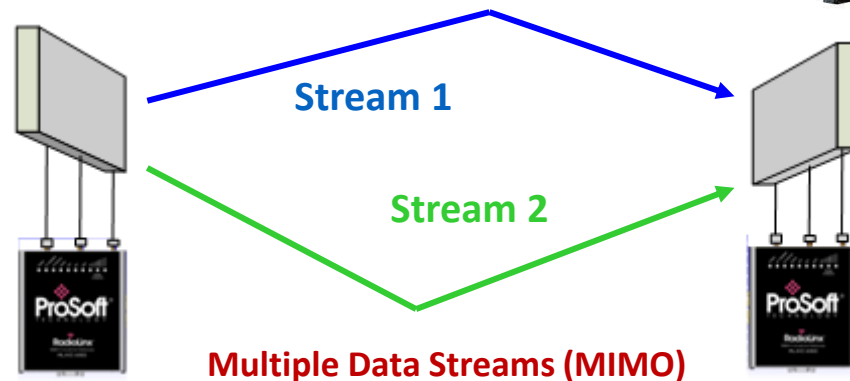
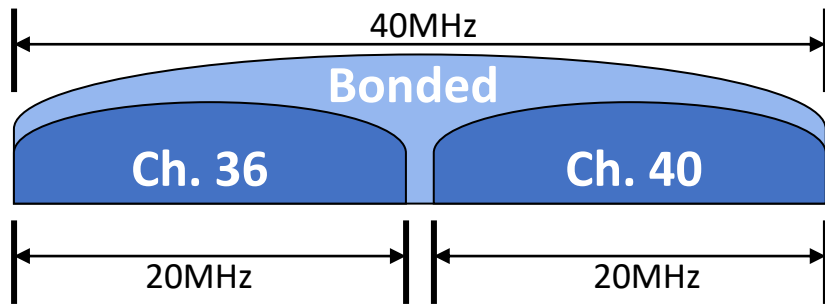
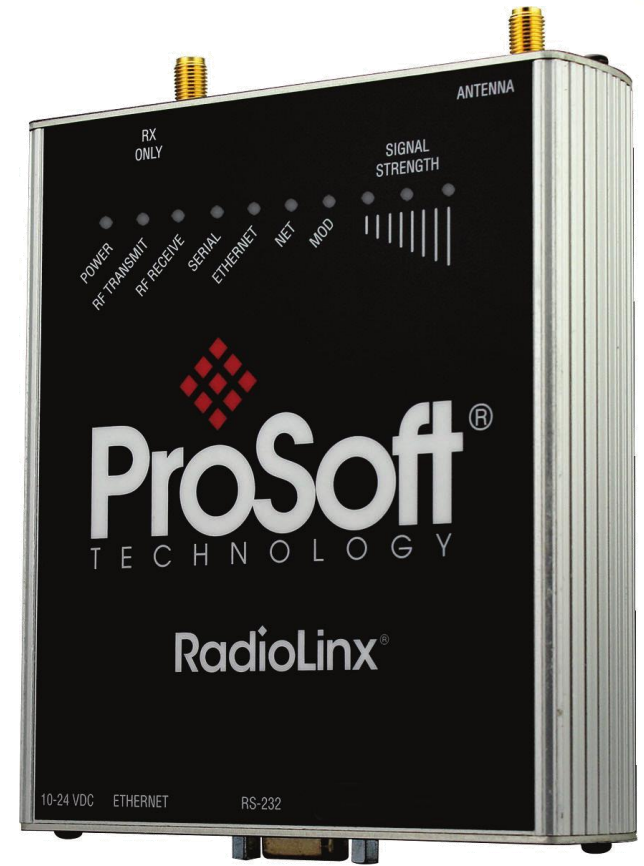


Mobile worker with 3rd party client

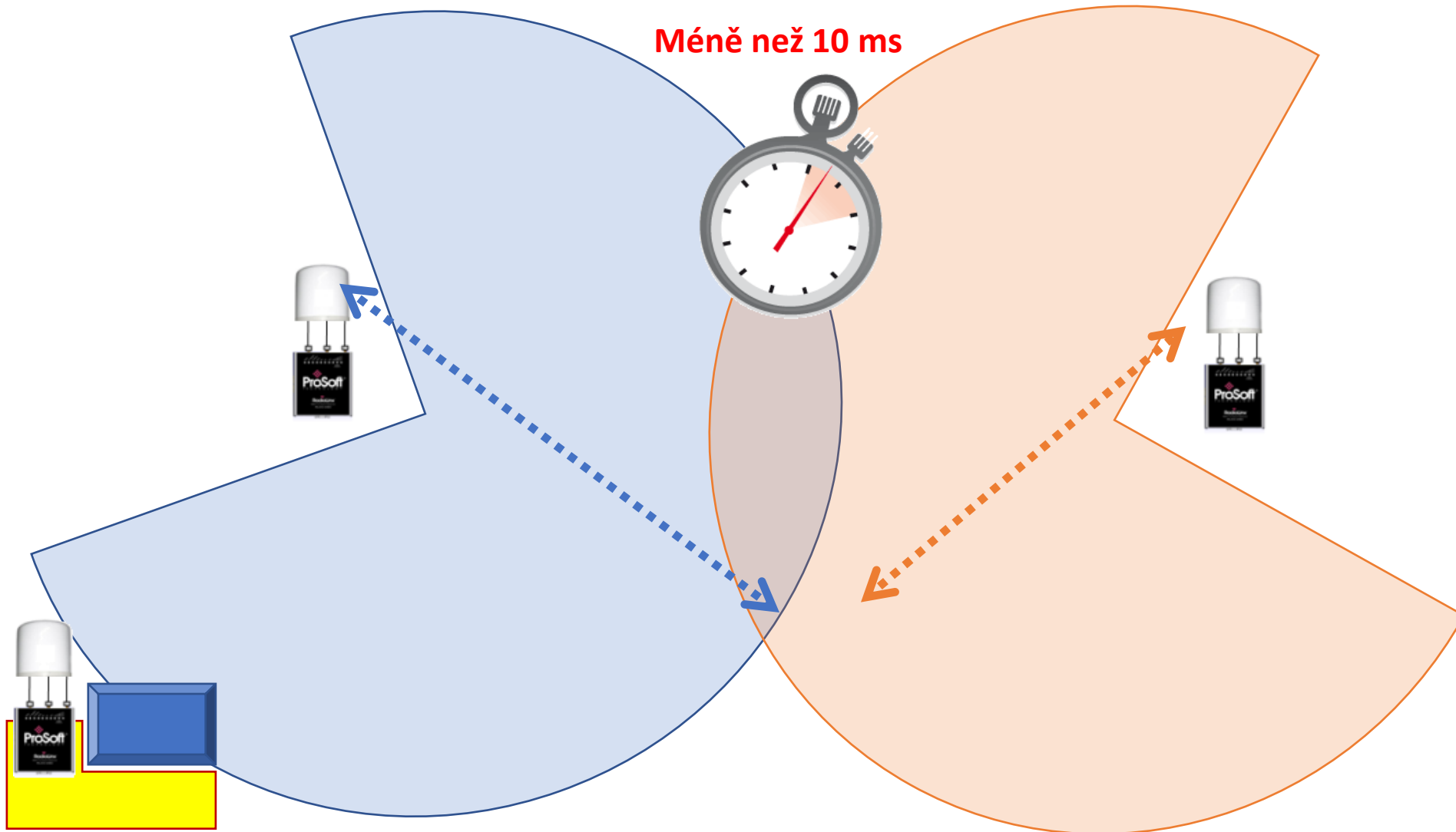
Network extension without cables

802.11abgn Fast Industrial Hotspot

- ❖ **Vysokorychlostní technologie 802.11n**
 - ❖ Channel Bonding & MIMO Antenna (2 streams)
 - ❖ Až 300 Mbps RF data rate
 - ❖ 2.4 GHz nebo 5 GHz pásmo – včetně DFS kanálů
- ❖ **Optimalizováno pro Ethernet IO & Producer/Consumer systems**
 - ❖ Až 4,000 paketů/sec – velmi rychlé obnovovací frekvence
 - ❖ IGMP snooping / filtrování paketů



TRENDY V BEZDRÁTOVÉ PRŮMYSLOVÉ KOMUNIKACI



jeřáby



automobilky



automatické vozíky

Jednoduchá konfigurace

All that is required create WLAN network:

- SSID
- Security Mode
- Encryption
- WPA phrase

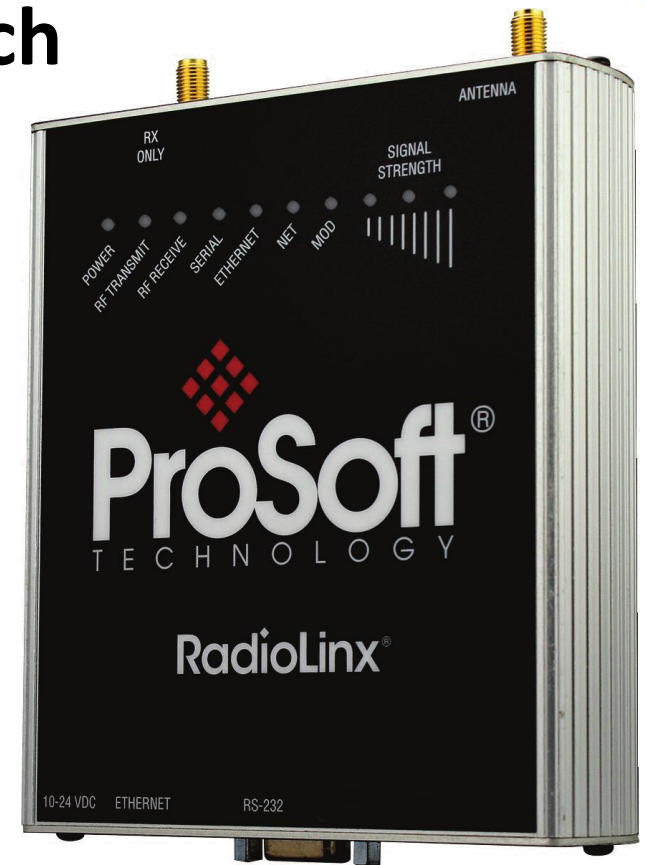
The screenshot displays the configuration interface for a RadioLinX Industrial Hotspot. At the top, the ProSoft Technology logo and the product name 'RadioLinX Industrial Hotspot' are visible. The interface is divided into several sections:

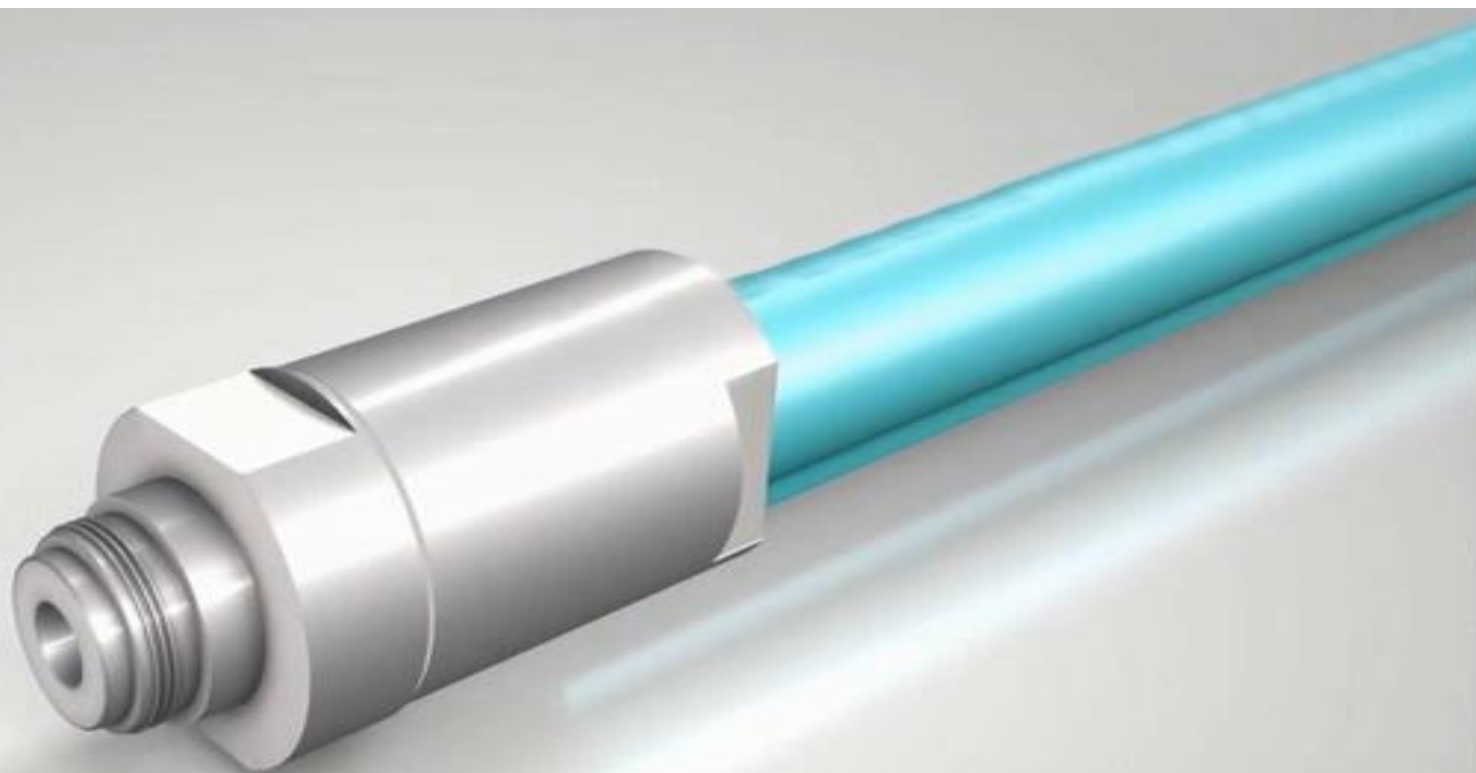
- Radio Information:** Radio Name: RLX2Repeater, Radio MAC: 00.0D.8D.F0.E7.98, Radio Type: RLX2-IHNF-A, Update every: 15 sec, Up Time: 0 Day 0 Hr. 5 Min. 13 Sec., Link Time: n/a.
- Signal and Link Status:** Signal Strength: Scanning..., Parent MAC: none, Branch Length: n/a, # Radios Linked: 0, Current Channel: 116, Link Mode: 802.11n 20MHz channel.
- Navigation Tabs:** Basic Settings, Advanced Settings, Parent Link, Advanced Network Settings, Serial Settings, QoS, VLAN, NAT, About.
- Basic Wireless Settings:** Radio Name: RLX2Master, Network SSID: Network1, 802.11 Mode: 802.11n, Mode: Master (48 (5240 MHz)), Repeater (Parent Auto Select), Bridging Client, Client (Auto), Client MAC: 00.00.00.00.00.00.
- Wireless Security Settings:** Security Mode: WPA/WPA2 Personal, Encryption: AES, WPA Phrase: *****, MAC Filter (Edit Filter), Hide Network SSID.
- Access Settings:** Obtain IP address - DHCP (selected), Use the following IP address (192.168.1.254, Subnet Mask: 255.255.255.0, Def. Gateway: 192.168.1.254, Primary DNS: 0.0.0.0, Secondary DNS: 0.0.0.0), Download Config.
- Buttons:** Apply Changes, Cancel Changes, Factory Defaults, Help.
- Footer:** MAC Filter: Check to allow only certain MAC IDs to link to this radio. Click button to edit MAC list.



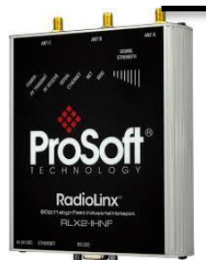
Navrženo do extrémních podmínek

- ❖ Rozšířené provozní teploty
 - ❖ Od - 40°C do + 75°C
- ❖ Vysoká odolnost vůči nárazům a vibracím
- ❖ Certifikováno do nebezpečného prostředí
 - ❖ Class 1, Division 2
 - ❖ ATEX Zone 2
- ❖ Možnosti průmyslového napájení
 - ❖ 12/24 VDC
 - ❖ Power over Ethernet (PoE)



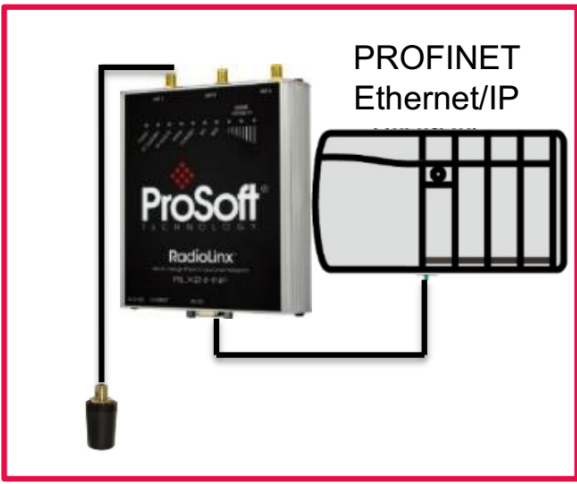


Construction

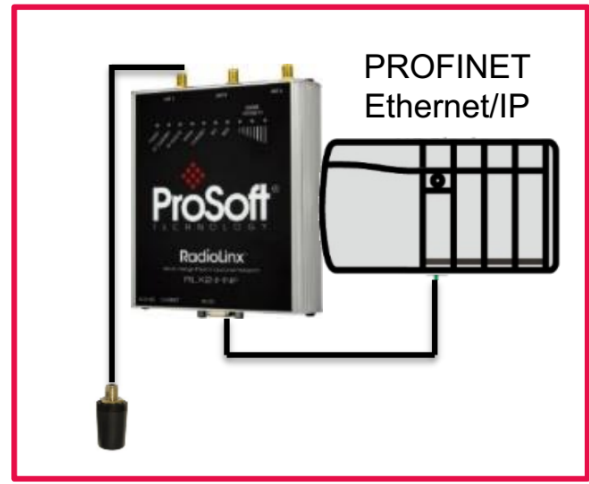


Master (AP)

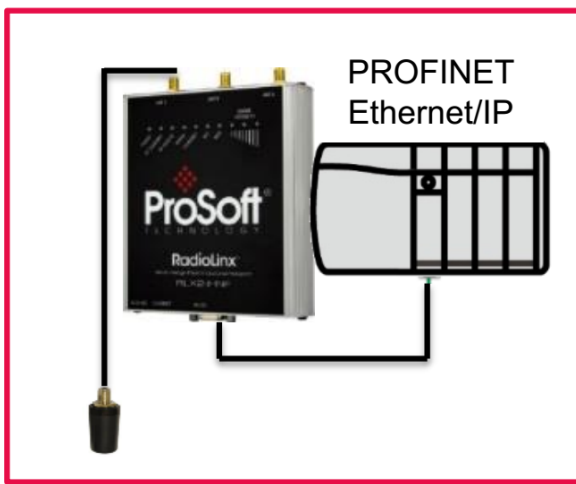
Mobile Client



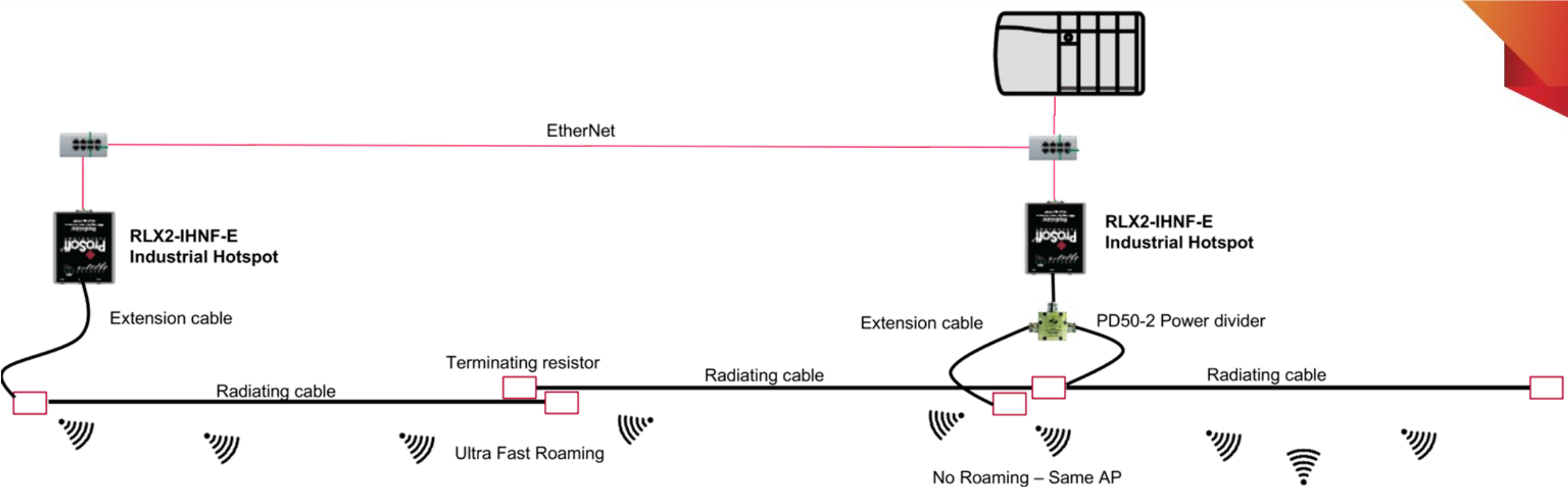
Mobile Client



Mobile Client



Direction of Travel



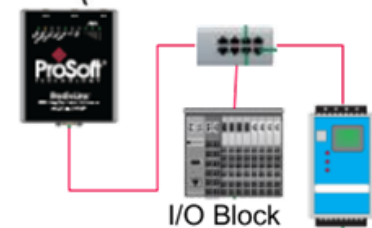
• **5GHz**

- Higher bandwidth
- Safety application
- 75m per segment
- 150m with splitter

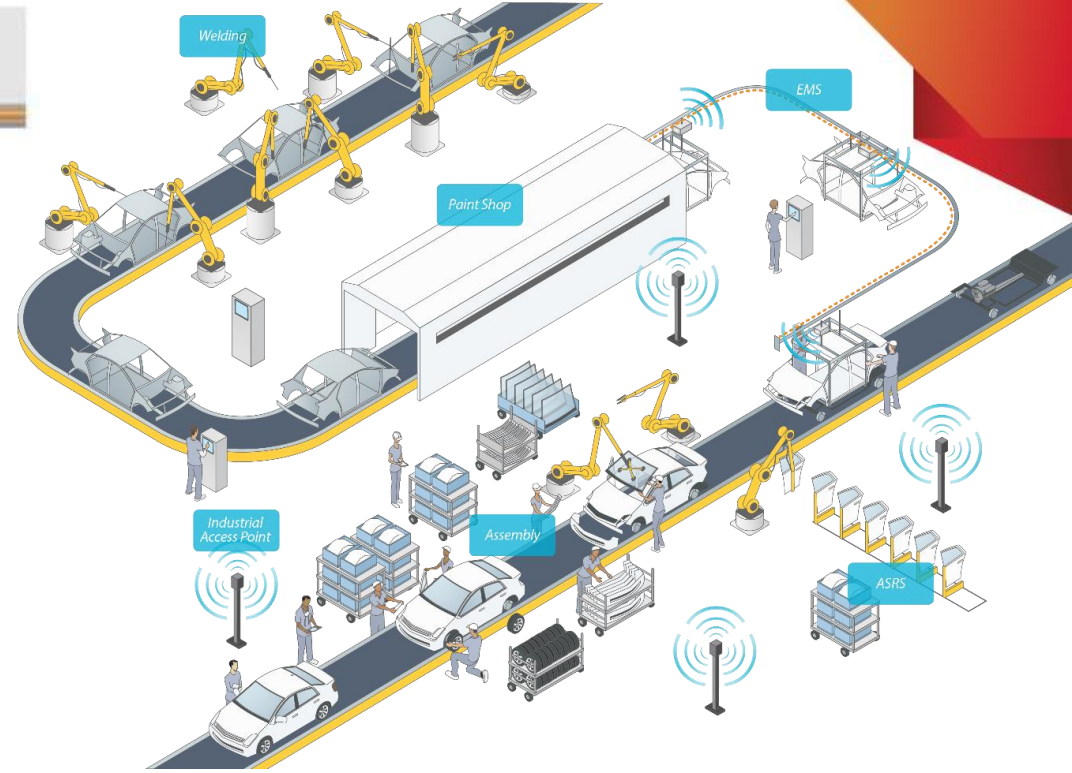
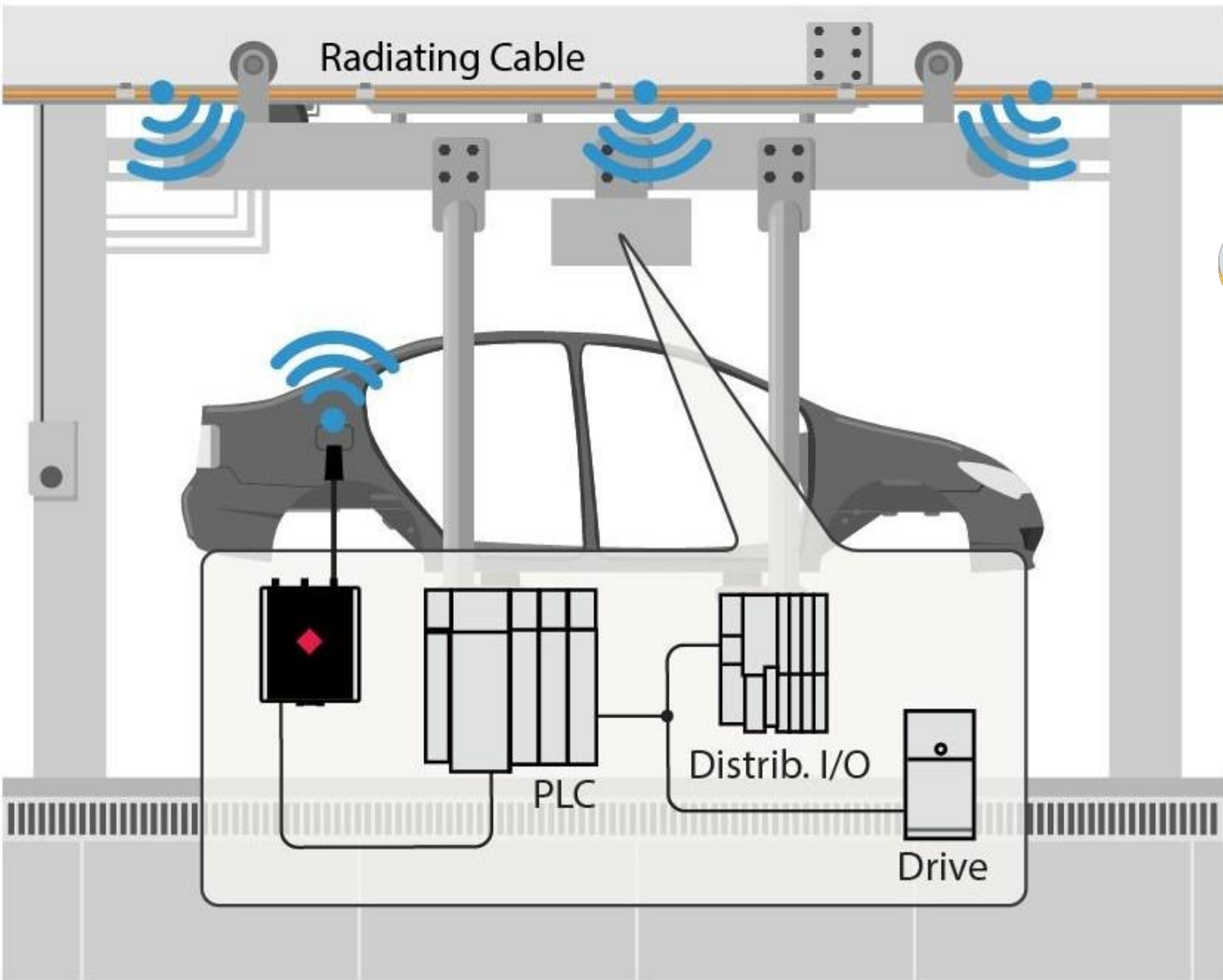
• **2.4GHz**

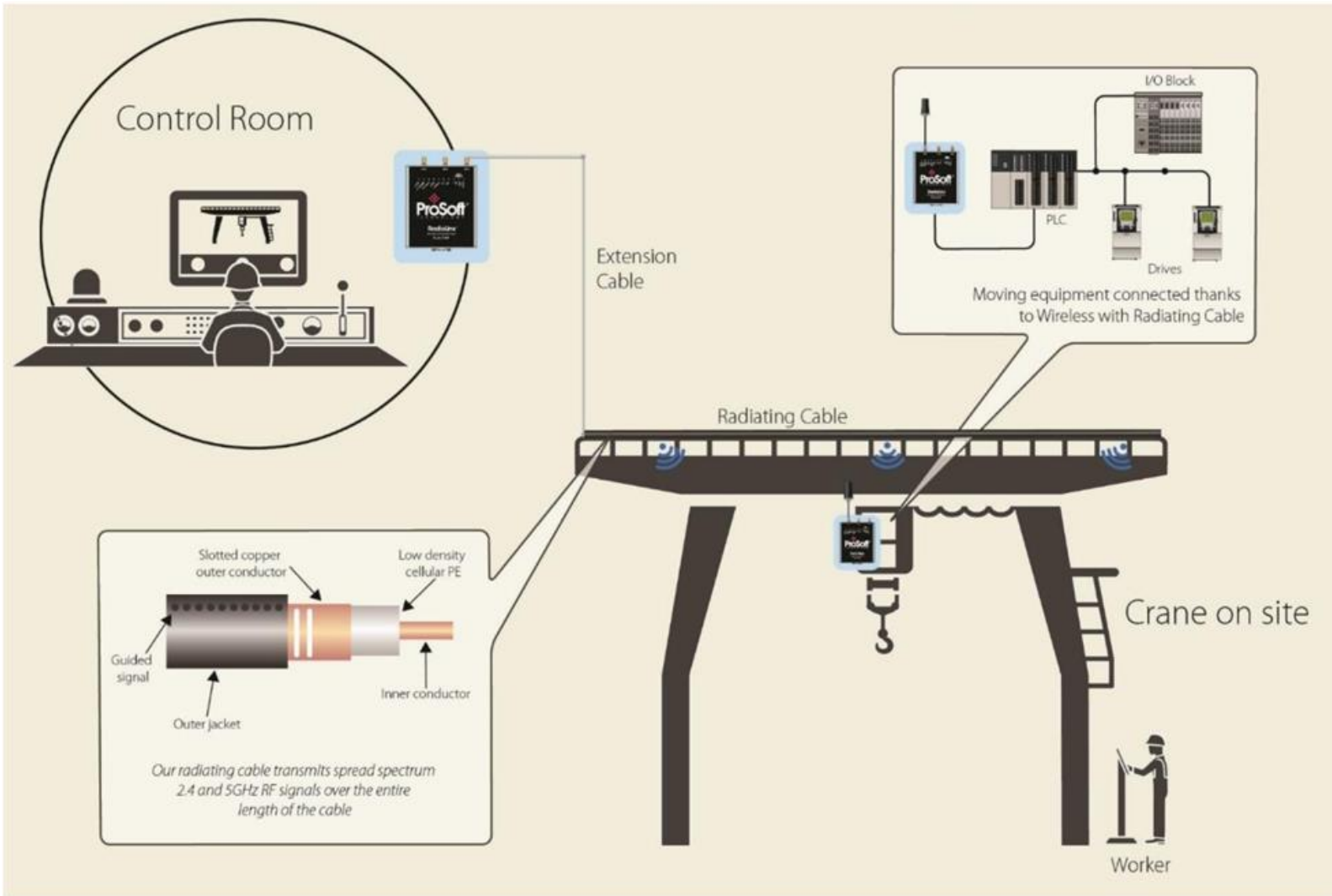
- Lower bandwidth
- Standard application
- 150m per segment
- 300m with splitter

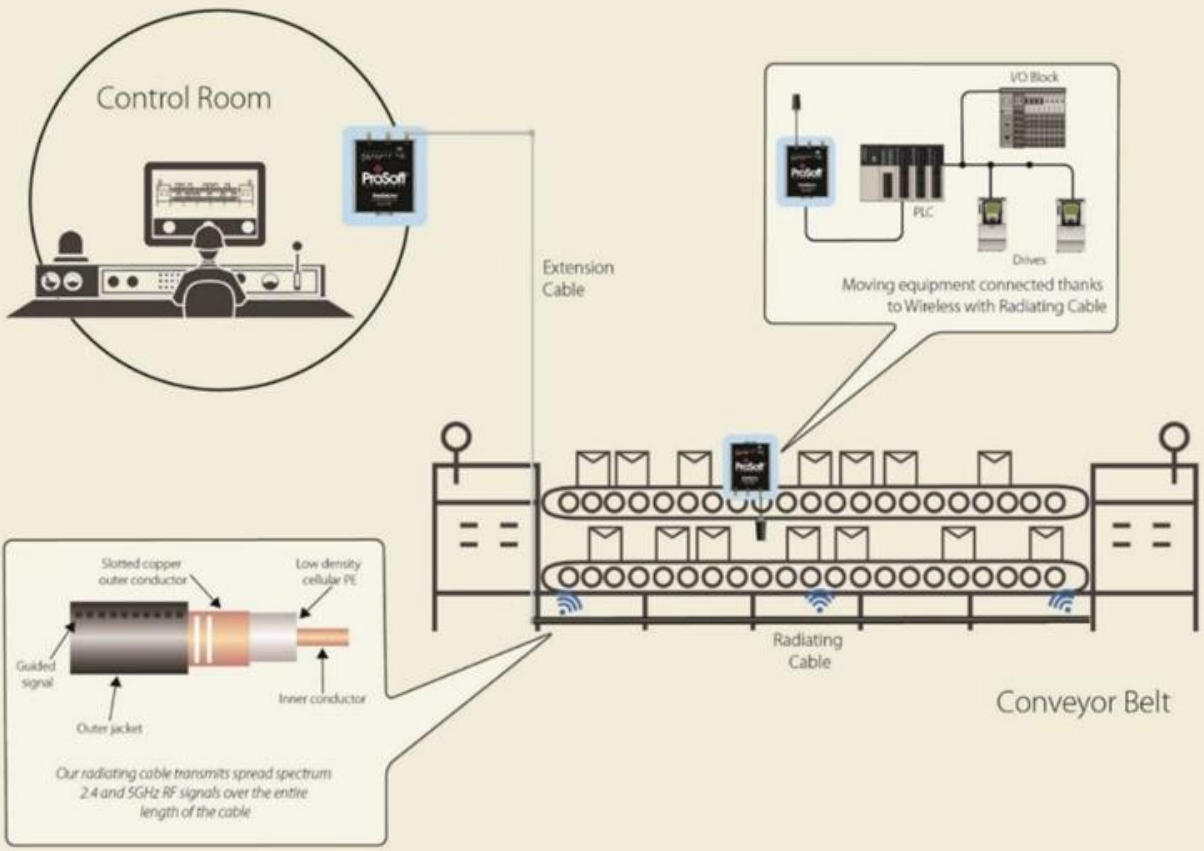
RLX2-IHNF-E Industrial Hotspot



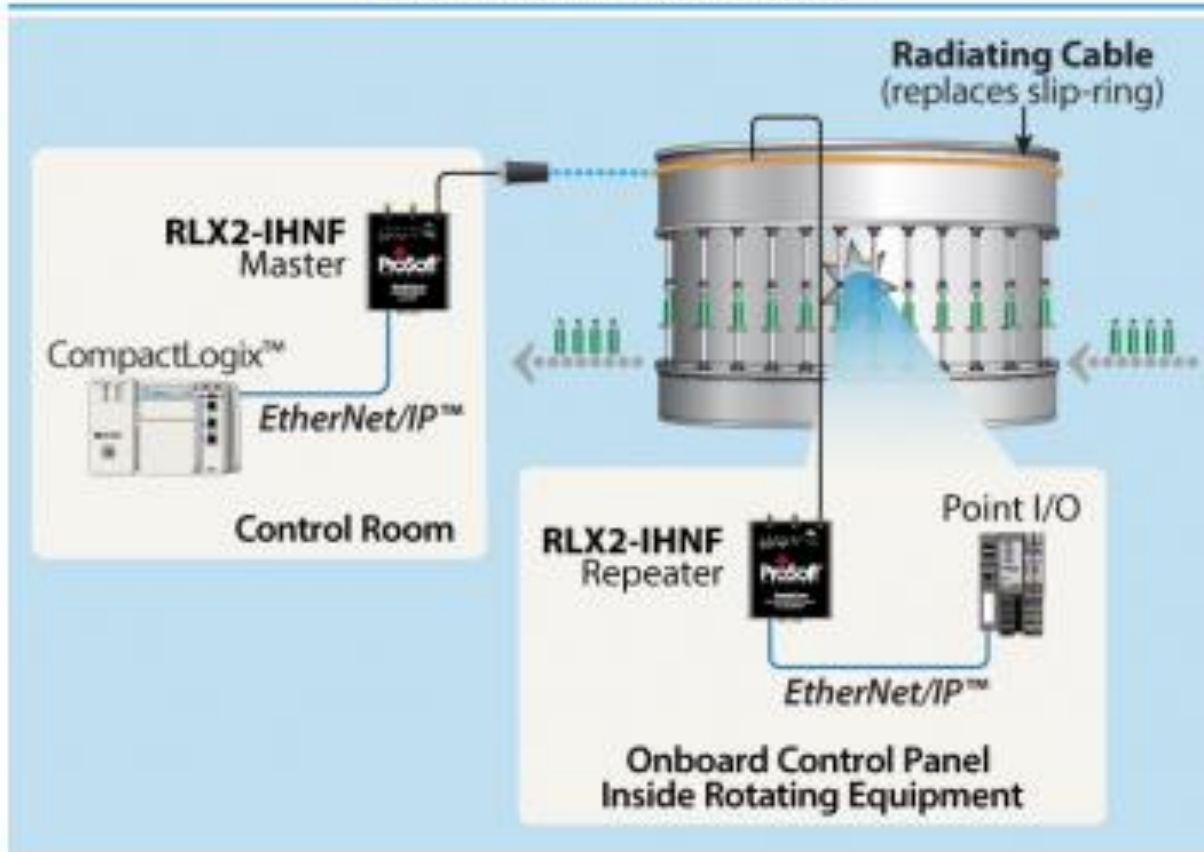
Radiating Cable







Slip-Ring Replacement



The screenshot displays a network diagram with the following components and links:

- Tip Area** (Radio) connected to **Overland Transfer Point** (Radio) with a link of -74dBm, 1.6km, 11.00 Mbps.
- Overland Transfer Point** connected to **Non Driver Tipper** (Radio) with a link of -71dBm, 0.32km, 11.00 Mbps.
- Non Driver Tipper** connected to **Spreader** (Radio) with a link of -71dBm, 0.2km, 11.00 Mbps.
- Tip Area** connected to **Sub-Station 4** (Radio) with a link of -66dBm, 0.2km, 11.00 Mbps.
- Tip Area** connected to **Sub-Station 4** with a link of -60dBm, 0.1km, 11.00 Mbps.
- PR CCR** (Radio) connected to **Sub-Station 4** with a link of -66dBm, 0.2km, 11.00 Mbps.

Open configuration windows include:

- Lightning Protector:** Enable Lightning Protector checked.
- Antenna Selection:** Antenna Type: Parabolic; Part #: A2415NJ-DB, A2415NJ-DB, A2424NJ-DB, A5823NJ-DB; Gain: 24 dBi; Frequency range: 2400 - 2500 MHz.
- Site Properties:** Main Antenna: EIRP: 20dBm, Cable/Antenna Gain: 19dB, Max EIRP: 20dBm; Site Name: Repeater 1.
- Link Properties:** Distance: 0.5 km; Data Rate: 54.00Mbps; Free Space Loss: 94.2db; Earth Curvature: 0.0 feet; Fresnel Zone: 2.3 feet; Site 1 Name: Repeater 1, Signal level: -53dBm; Site 2 Name: Repeater 2, Signal level: -54dBm; Link strength: -54dBm, Link status: Excellent.
- Cable Selection:** 1st Connector: N_M_plug; Code: 40; Part #: C40M40-40-050; Description: 50R LMR 400 N Plug.
- Part List Table:**

Part #	Quantity	Description
RLX-IPK001	1	RF Connector Weatherproofing Kit
A2424NJ-DB	3	24 dBi Directional N jack parabolic
A2409NJ-DB	5	Antenna, 9dB omni J N heavy duty - with mounting hardware
A2415NJ-DB	3	24 dBi Directional N jack parabolic
C40M40-40-050	4	50R LMR 400 N Plug -> N plug cable
C40M40-40-050	1	40R LMR 400 N Plug -> N plug cable
C40M40-40-050	1	5R LMR 400 N Plug -> N plug cable
C40M40-40-050	1	60R LMR 400 N Plug -> N plug cable
C40M40-40-050	1	10R LMR 400 N Plug -> N plug cable
LP-24002	8	N jack -> N jack 50ft lightning protection wharfe
C17M19-40-092	1	5R LMR 195 RA RP-SMA -> N plug cable
C17M19-40-092	2	2R LMR 195 RA RP-SMA -> N plug cable
RDC-FT50CA	1	2.4GHz Frequency Hopping Wireless Ethernet Switch



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