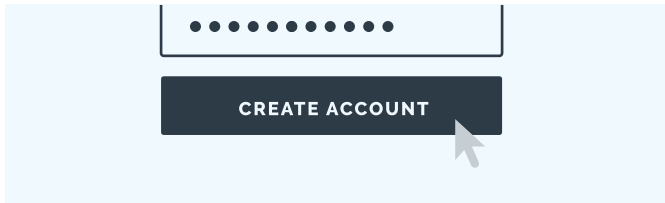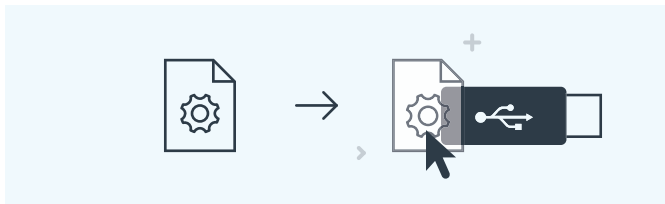# IXrouter
Quick Start Guide
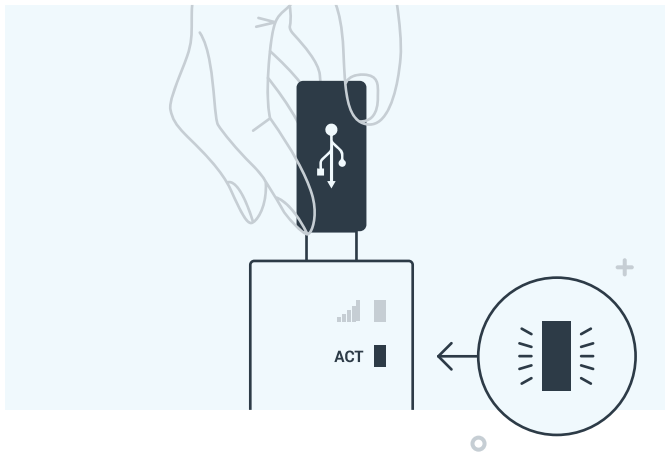
Seamlessly integrated with the IXON Cloud

1. Create your account

Get started with the IXrouter by creating an account on the IXON Cloud. Set up your own IIoT user and company account by visiting connect.ixon.cloud.

2. Get config

Easily create the configuration file for your IXrouter from your own IIoT account. Just go to Tools > Start configuration and start the self-explaining wizard. Save the downloaded file to a USB flash drive (included) using the exact filename ixrouter.conf.
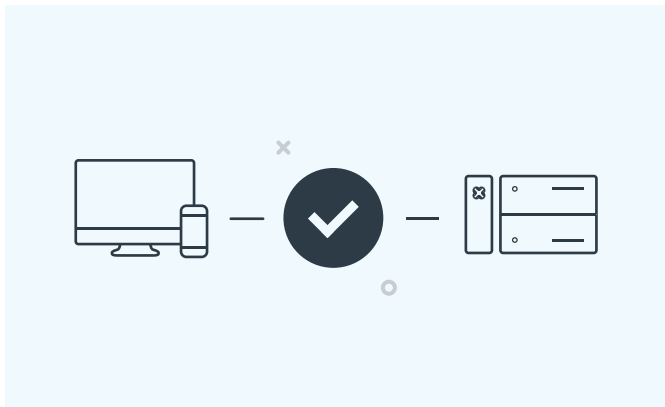
3. Connect

No matter your situation, you can always connect your machine to the cloud. The IXrouter provides wired (Ethernet), 4G or Wi-Fi connectivity options. Registration starts immediately upon inserting the USB flash drive. Once the ACT led status is steady blue, the IXrouter is connected to the IXON Cloud and will automatically show up in your company account.

⚠ Only insert the SIM card when the IXrouter is turned off.

Ready. Set. Go!

You've now successfully installed your IXrouter. The IXrouter is designed for and seamlessly integrated with the IXON Cloud. Any further configuration can be handled from your own IIoT account. The IXON Cloud offers a multitude of services. Deliver remote service, monitor your machine, set up alerts, and create high-end data reports. It's all at your fingertips in your own customer portal.

Find out more about IXON's solution and its endless possibilities on www.ixon.cloud.

Troubleshooting Front Panel LEDs

LED	State	Description
📶	**Constant Blue**	Connected, good reception
	Constant Purple	Connected, medium reception
	Constant Red	Connected, poor reception
	Blinking Blue	Initializing cellular module
	Blinking Red 1 pulse	No reception or unable to connect to network (APN or SSID may be incorrect)
	Blinking Red 2 pulses	PIN invalid or PUK required
	Blinking Red 4 pulses	SIM card is invalid or missing
ACT	**Constant Blue**	Succesfully connected to the IXON Cloud
	Blinking Blue 1 pulse	Connecting to the IXON Cloud
	Blinking Blue 2 pulse	Initiating VPN connection
	Constant Red	Booting up (may take 1 min) or not yet registered
	Blinking Red 1 pulse	Waiting for internet access
	Blinking Red 3 pulses	LAN/WAN conflict (conflicting subnets)
	Blinking Red 4 pulses	Removed from the IXON Cloud (re-insert USB flash drive to register again)
	Blinking Red 5 pulses	Previously registered to the IXON Cloud (remove from the IXON Cloud and register again)

General Specifications

Ports	5x GbE (4x LAN, 1x WAN), 1x USB2.0
Power supply	12-24 VDC +/- 20% LPS 2A
Power consumption	About 2.5 to 5 Watt (idle)
Temerature range	-20°C to 65°C
Dimensions	111 x 95 x 28mm
Physical specs	Metal case, IP20, DIN rail mountable
Certifications	c(UL)us E492721 CE FC PTCRB* AT&T Network Ready Device*
Warranty	Two years
IXON Cloud	Lifetime access included

(*) Only applicable for the 4G-A model.

Warning

The IXrouter allows the user to remotely connect to industrial control equipment via Ethernet, Wi-Fi, and cellular network connections. The remote user may fully operate and monitor the local control system and affect the function and control of the application similar to a local operator. Proper Control, Security and Safety Procedures should be considered and implemented when utilizing the remote access feature.

Wi-Fi and 4G models

The antenna used with this transmitter must be installed with a separation distance of at least 20 cm from all persons and must not be co-located or operated in conjunction with any other antennas or transmitters. Only an antenna tested with the wireless transmitter or a similar antenna with equal or lesser gain may be used. This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Connectivity specifications

Model	Wi-Fi	Cellular
IX2400		
IX2401		Region: Worldwide Pentaband UMTS 800 / 850 / 900 / 1900 / 2100MHz GSM 850 / 900 / 1800 / 1900MHz
IX2402		Region: EMEA, Korea, Thailand, India LTE: B1 / B3 / B5 / B7 / B8 / B20 / B38 / B40 / B41 3G: B1 / B5 / B8
IX2403		Region: North America LTE: B2 / B4 / B12 3G: B2 / B4 / B5
IX2404		Region: China LTE: B1 / B3 / B5 / B8 / B34 / B38 / B39 / B40 / B41 3G: B1 / B8
IX2410	802.11b/g/n Client + AP mode	
IX2412	802.11b/g/n Client + AP mode	Region: EMEA, Korea, Thailand, India LTE: B1 / B3 / B5 / B7 / B8 / B20 / B38 / B40 / B41 3G: B1 / B5 / B8

All models can connect via a wired connection (Ethernet cable).

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Additional Help and Support

For additional product support, specifications, a detailed user manual and installation tips go to support.ixon.cloud. For direct technical support and questions, get in touch with our Technical Support team via support@ixon.cloud or +31 (0)85 – 744 110.