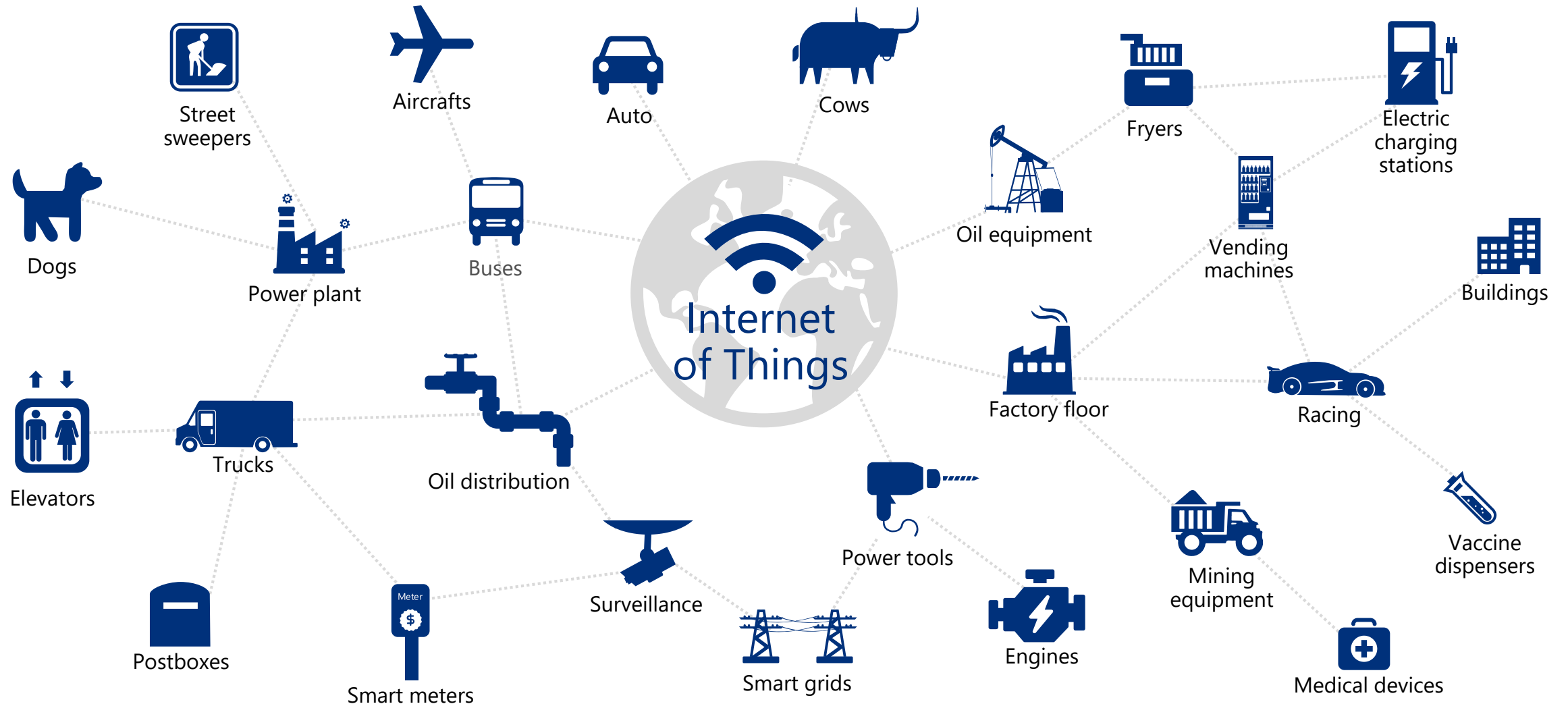


Azure Certified for IoT Program

- Choosing the right
IoT device for you



So many IoT devices! Where do I start?



Choosing a device is hard! Some research data:

91%

Of customers and partners would like a matchmaking process to find a device

90%

Of SI's want specific tutorials to connect devices to the cloud

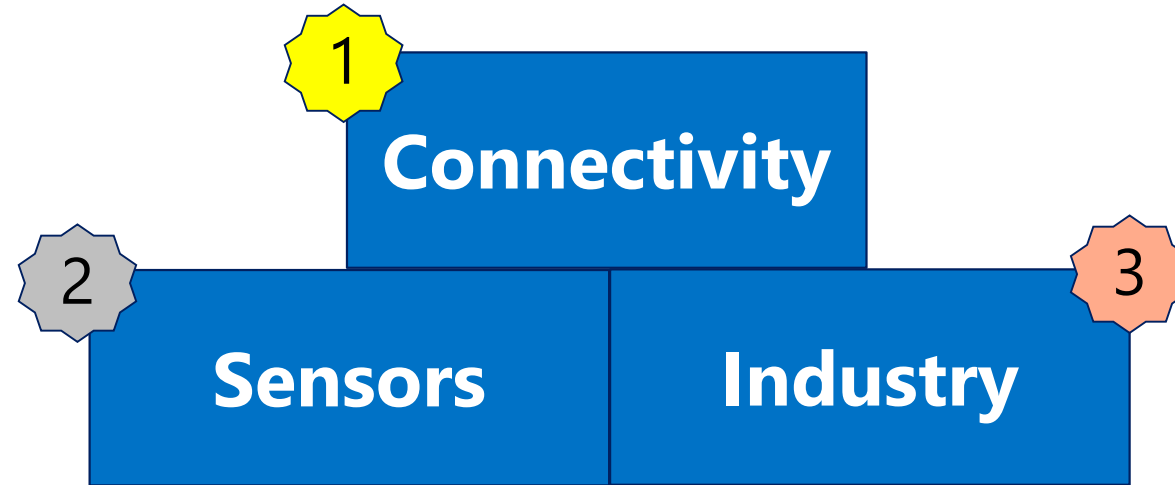
100%

Choose their device after at least considering more than one device type

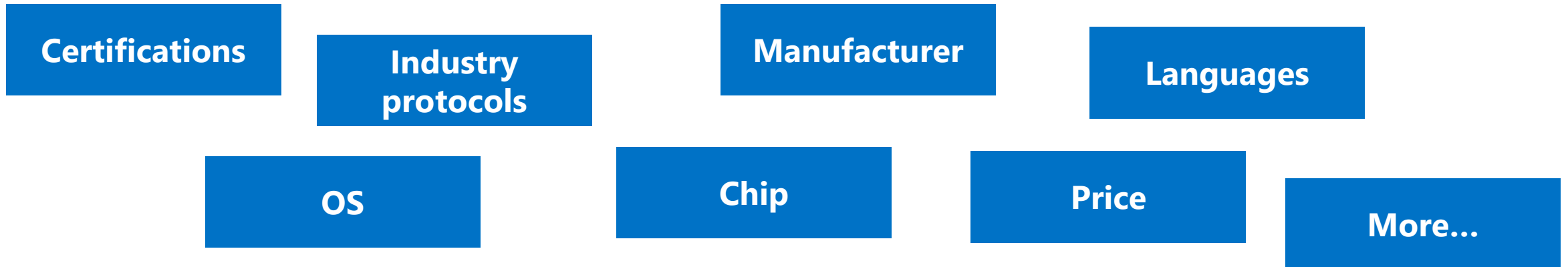


More research: decision factors in choosing a device

Top factors



Other factors



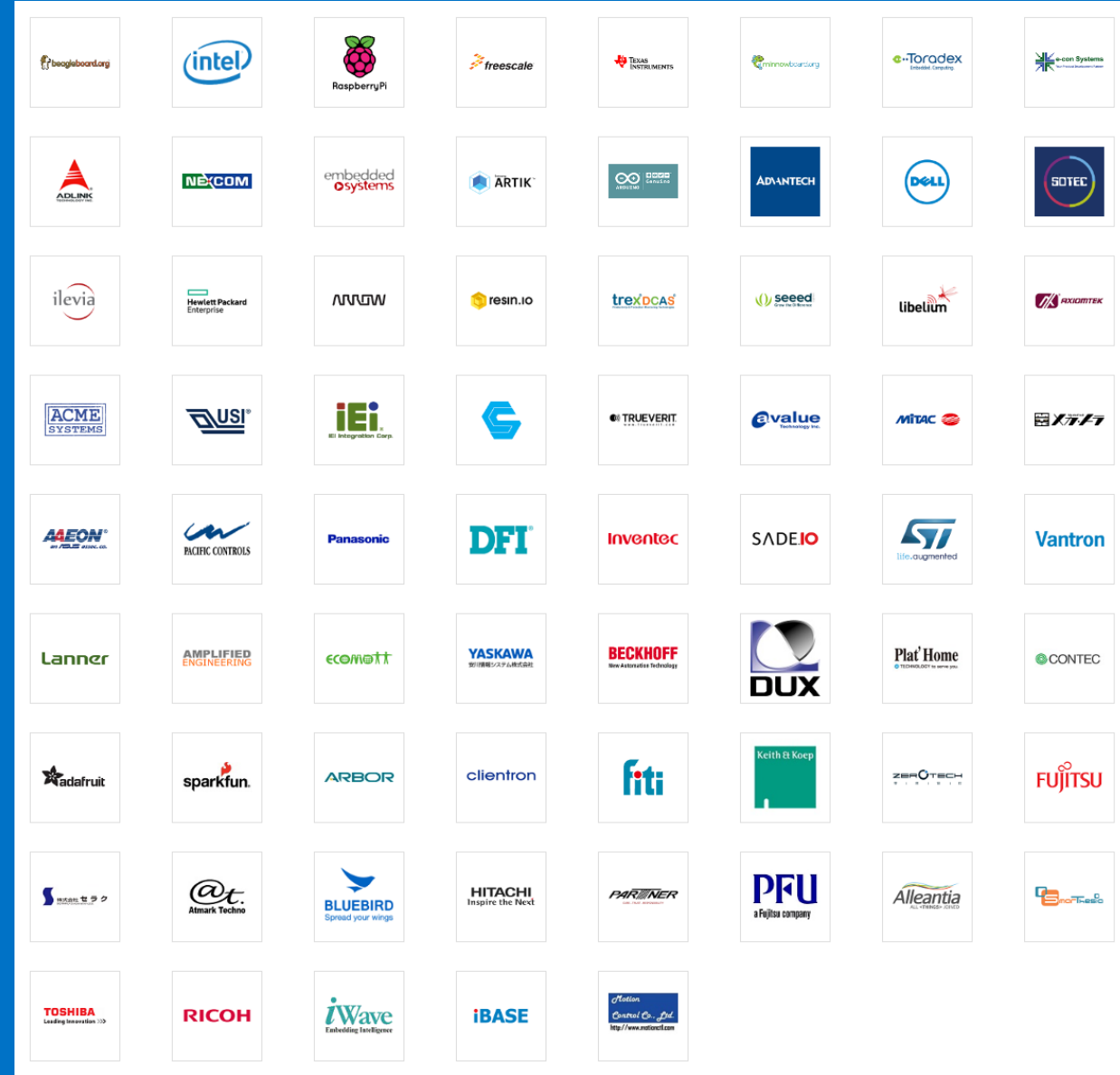
How can Microsoft help in this
challenge...?

Certified for IoT

Big range of compatible devices

Over **100**
partners and
200 devices
certified to work
with Azure IoT

Many languages, OS
and Protocols



Introducing a new way to find your device

Certified for IoT device catalog: a new site for Azure compatible devices



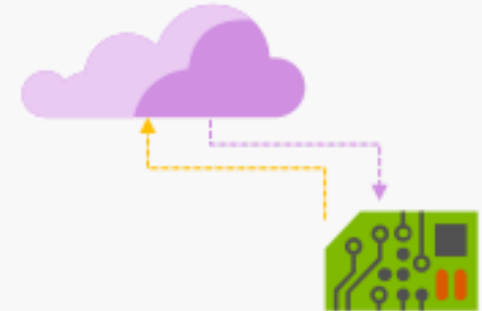
Enriched search

Filter results based on your IoT project needs, including industry, sensors, compatibility, operating system, programming language and more.



Contact manufacturer

Reach out directly to the device manufacturer to request a demo and learn more.



Connect to Azure IoT

Get your device connected to Azure IoT by using pre-tested devices with specific instructions.

DEMO

catalog.azureiotsuite.com

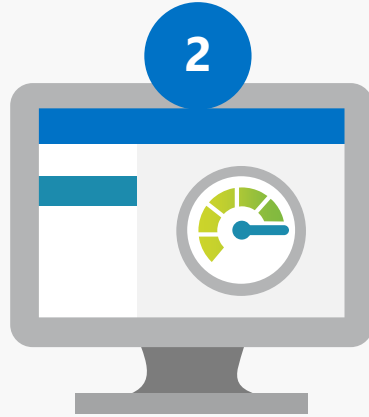
How to become Certified for IoT

Certify your device easily and be featured on the catalog



Create profile

Fill out basic company information at catalog.azureiotsuite.com and your partner dashboard will allow you to add or manage devices.



Add a device

Choose the OS platform and programming language(s) for which to certify your device. Microsoft will provide step-by-step instructions to .



Test and validate

Run compatibility tests and provide:
-Packaging for installing agent in your device
-Example using your device with Azure IoT



Get listed

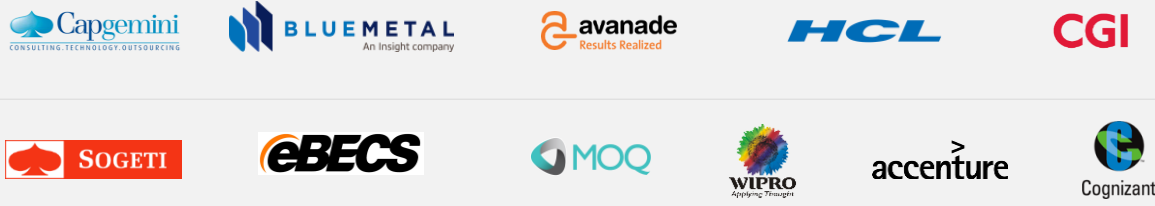
Enjoy the benefits!
Your device will be automatically listed for showcase.

Benefit from the vast Azure IoT ecosystem

Dev, IT & Productivity



System Integrators



Solution Providers (ISVs)



Azure Certified





Get started at:

catalog.azureiotsuite.com

Register your device:

catalog.azureiotsuite.com/partner

Azure IoT supports different OS and platform

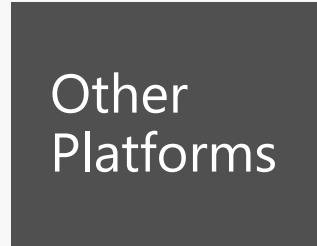
OS Platforms



Debian Linux
Fedora Linux
Raspbian Linux
Ubuntu Linux
Yocto Linux



Windows Desktop
Windows IoT Core
Windows Server



ARM[®]mbed[™]
TI-RTOS



Porting support provided for other OS platforms not listed.
More OS Platforms are added on a monthly basis

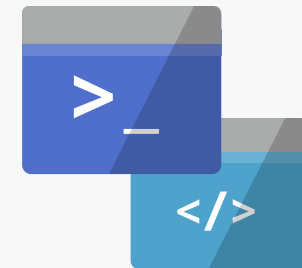
Languages

C
Java
C#
JavaScript
Python



Protocols

HTTPS
AMQP
MQTT



Introducing Certified for IoT device catalog

Showcase devices

Browse and filter IoT devices by business and technical needs

Generate new customers

Engage partners and customers directly to create more business opportunities

Connect to Azure

Enable customers cloud connection in minutes with device-specific Azure tutorials


Find your IoT device
Certified for IoT devices tailored to your needs

Tell us what device you are looking for

Become a Partner Learn More


72 result(s) found

- Industry
- Device Type
- Tested Compatible Sensors
- Built-in Sensors
- Operating System
- Connectivity
- I/O Hardware Interfaces
- SoC Manufacturers
- Programming Languages
- Industry Protocols
- Industry Certification
- Kit Available
- Cloud Protocol
- Geo Availability




AAEON BOXER-6614

AAEON
an ASUS brand




AAEON PICO-BT01

AAEON
an ASUS brand




AAEON GENE-BT05

AAEON
an ASUS brand



AAEON ACP-1104


AAEON
an ASUS brand



AAEON-UP

AAEON
an ASUS brand

NISE50




AAEON BOXER-6614

Published: 2016-10-18T01:22:29.51Z

Request demo Get started

Manufacturer Website

PDSB 325



Adafruit Feather M0 Wifi

Advantech-AIMB-203

Summary

In this era of information explosion, the advertising of consumer products will not be confined to the family television, but will also spread to high-traffic public areas, like department stores, the bus, transportation station, the supermarket etc. The advertising marketing industry will resort to every conceivable mean to transmit product information to consumers. System integrators will need a multifunction device to satisfy commercial needs for such public advertising. BOXER-6614 is a Fanless Embedded Box PC which utilizes the Intel Celeron N2930 Quad Core 1.83 GHz SoC N2930/ Celeron N2807 Dual Core 1.58 GHz (Optional); this embedded controller expands its graphics performance greatly with the newest generation of Celeron processors.

Industries Not Industry Specific	Operating Systems Windows 10, Windows 8
Device Type Embedded PC	Languages C#

Sensors & Connectivity

Cloud Protocols AMQP, MQTT, HTTPS	Tested Compatible Sensors No Built-in Sensors
Connectivity Bluetooth, LAN, LTE	Built-in Sensors No Built-in Sensors
I/O Hardware Interfaces USB	Industry Protocols N/A

Device Specifications

Processor Intel® Celeron™ J1900, 2.0 GHz Intel® Celeron™ N2930, 1.83 GHz Intel® Celeron™ N2807, 1.58GHz	Device Technical Spec URL http://data.aaeon.com.tw/DOWNLOAD/2014%20datasheet/Systems/BOXER-6614.pdf
Memory (RAM) DDR3L 1333 SODIMM slot x 1, up to 8 GB (J1900/N2930/E3845) or 4 GB (N2807)	Industry Certifications CE/FCC class A
Memory (Flash)	Geo Availability Worldwide

Get started today

- ➔ **Browse the device catalog**
catalog.azureiotsuite.com
- ➔ **Create a partner profile**
catalog.azureiotsuite.com/partner
- ➔ **Device compatibility with SDKs**
[Azure documentation](https://azure.microsoft.com/en-us/solutions/articles/compatibility-azure-iot-suite/)
- ➔ **Learn about Azure IoT Suite**
InternetofYourThings.com

Questions or feedback?

Email the program team at:

iotcert@microsoft.com

Additional IoT Resources

Visit Internet of Your Things website

[Learn about Microsoft's view on IoT](#)

[Read customer stories in various industries](#)

[Get started with the Internet of Things in your organization](#)

Start with the [Azure IoT Suite](#)

Visit our [IoT Blog](#) to stay up to date on the latest information from Microsoft

Prepare Your Team

Sales and Marketing Content

[Azure IoT Partner Portal](#)

Technical Content

[Azure IoT Suite](#) and [developer resources](#)

Join the [Azure IoT Partner Community](#) and attend the [community webinars](#)

Attain the [Cloud Platform competency](#) through the [IoT Learning Path](#)

Opportunities

Attend technical and developer events like [//build](#) and [Microsoft Ignite](#)

Share relevant [Worldwide Partner Conference](#) session recordings with your team

Leverage a [MSDN subscription](#) to access software, services and support for development and testing

Attend a Partner Practice Enablement workshop in your country

Learn More About Microsoft's IoT Offerings

Product Overviews

[Azure IoT Suite](#)

[Azure IoT Hub](#)

[Azure Service Bus](#)

[Azure Blob Storage](#)

[Azure Table Storage](#)

[Azure SQL Database](#)

[Azure HDInsight](#)

[Azure Stream Analytics](#)

[Azure Notification Hubs](#)

[Azure Event Hubs](#)

[Azure Data Factory Service](#)

[Azure Machine Learning](#)

[Azure Service Fabric](#)

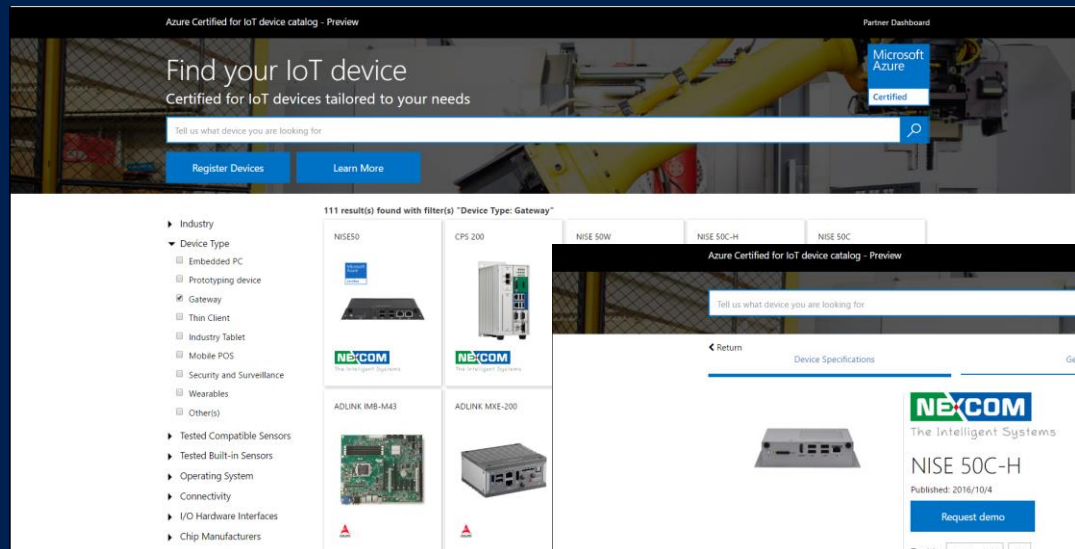
[Azure Machine Learning Studio](#)

[Power BI](#)

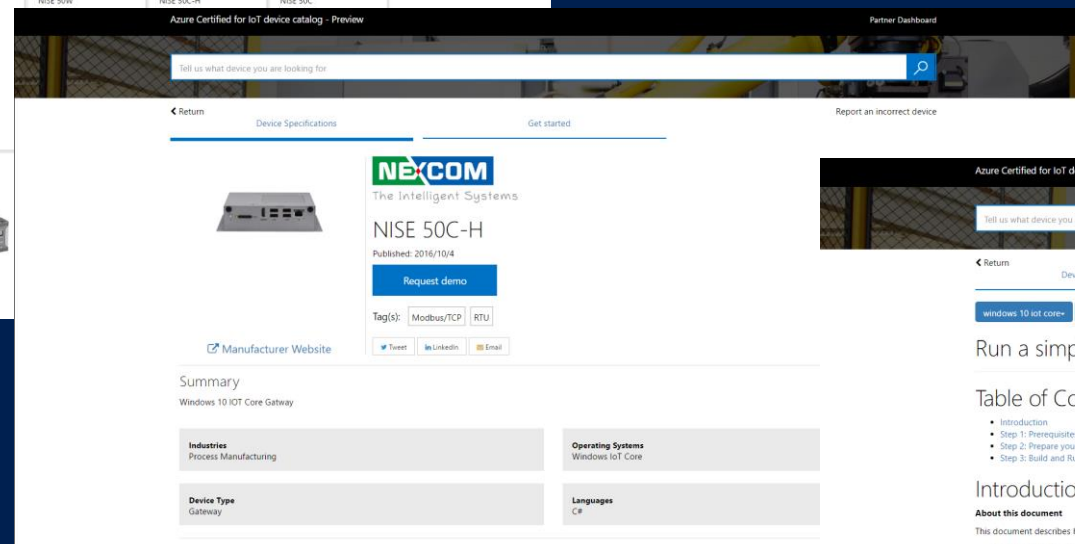
[Windows 10](#)

Gateway Example on IoT Device Catalog

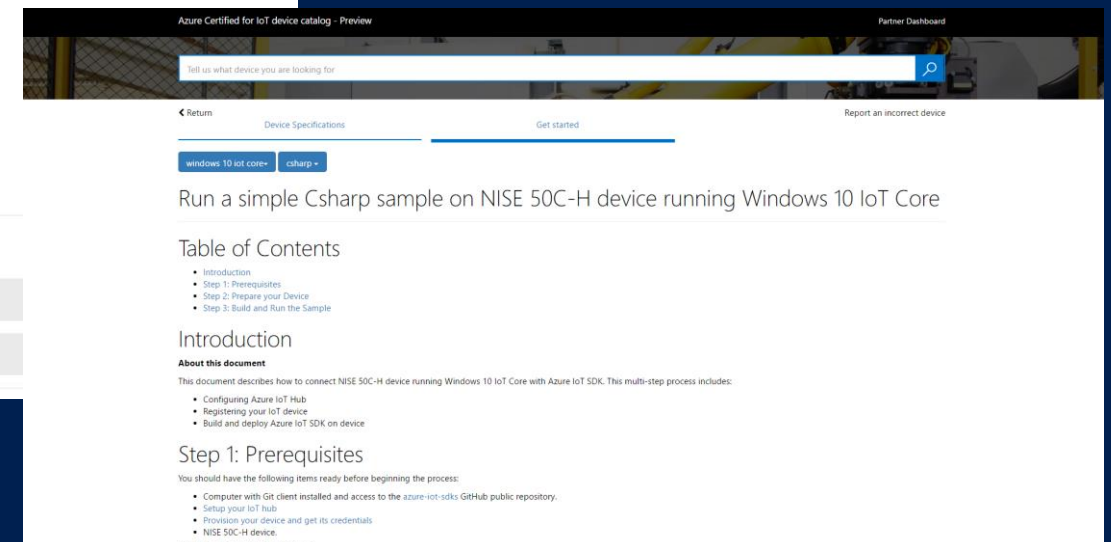
Device Type - Gateway



Device Specifications



Get Started



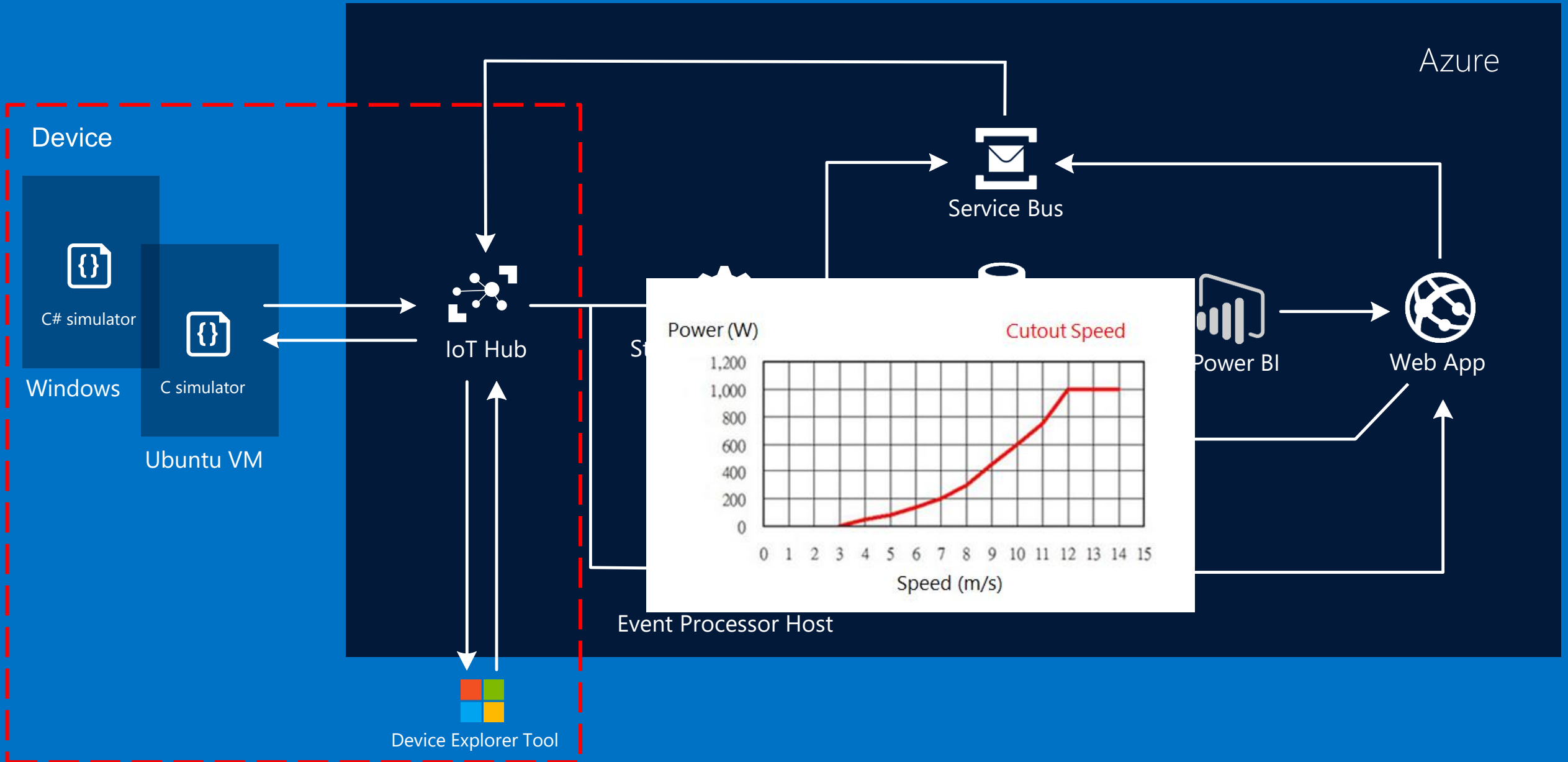
<https://catalog.azureiotsuite.com/>

Connecting the Device to Cloud - Part II

Simulated Linux and Windows Wind Turbines

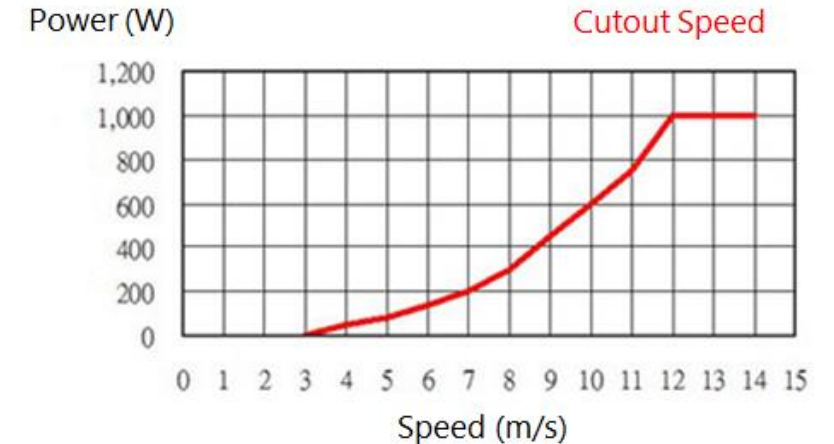


HOL 3 – Simulated Linux and Windows Wind Turbines



Simulated Wind Turbine

- Information
 - Device Name
- Telemetry Data
 - Message ID (for Debug)
 - Wind Speed (2~20 m/s)
 - Depreciation (30% ~ 100%)
 - Power (Wind Speed x Depreciation)
 - Time (UTC ISO8601 format)
- Frequency
 - One message in every 5 seconds



Developer Services



Visual Studio Team Services



Azure DevTest Labs*



VS Application Insights*



HockeyApp



Developer Tools

Management & Security



Azure Portal



Scheduler



Automation



Log Analytics



Key Vault



Security Center*

Compute



Virtual Machines



Virtual Machine Scale Sets



Cloud Services



Batch



RemoteApp



Service Fabric



Azure Container Service



Web Apps



Mobile Apps



Logic Apps*



API Apps



API Management



Notification Hubs



Mobile Engagement



Functions*

Data & Storage



SQL Database



DocumentDB



Redis Cache



Storage: Blobs, Tables, Queues, Files and Disks



StorSimple



Search



SQL Data Warehouse*



SQL Server Stretch Database*

Analytics



Data Lake Analytics*



Data Lake Store*



HDInsight



Machine Learning



Stream Analytics



Data Factory



Data Catalog



Power BI Embedded*

Internet of Things & Intelligence



Azure IoT Suite



Azure IoT Hub



Event Hubs



Cortana Intelligence Suite



Cognitive Services*

Media & CDN



Media Services



Content Delivery Network

Identity & Access Management



Azure Active Directory



B2C*



Domain Services*



Multi-Factor Authentication

Hybrid Integration



BizTalk Services



Service Bus



Backup



Site Recovery

Networking



Virtual Network



ExpressRoute



Traffic Manager



Load Balancer



Azure DNS*



VPN Gateway



Application Gateway

Let's Go

- Simulated Wind Turbine (Please refer the "03-HOL-Simulated Linux and Windows Wind Turbines" file)



BACKUP

Code Review in C SDK

- platform_init
 - serializer_init
 - IoTHubClient_CreateFromConnectionString(IoTHubClient_Create)
 - CREATE_MODEL_INSTANCE
 - DESTROY_MODEL_INSTANCE
 - IoTHubClient_Destroy
 - serializer_deinit
- platform_deinit

