

# IoT

in Action

EMEA

IoT Design  
Conference



## Building Devices with Windows 10 IoT Core

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IoT in Action

#IoTinActionMS

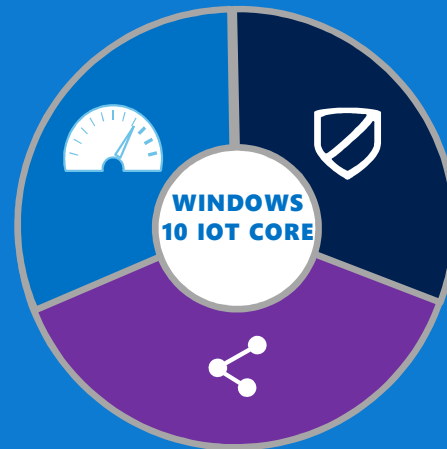


# WINDOWS 10 IOT CORE

THE MOST SECURE OS FOR BUILDING SMART THINGS AND MAXIMIZING EDGE INTELLIGENCE IN IOT SOLUTIONS

## PRODUCTIVE

Commercial OS platform that brings modern user experience to your things



## TRUSTED

Trusted platform for cloud-connected devices

## CONNECTED

Open platform that easily connects things, endpoints, and the cloud

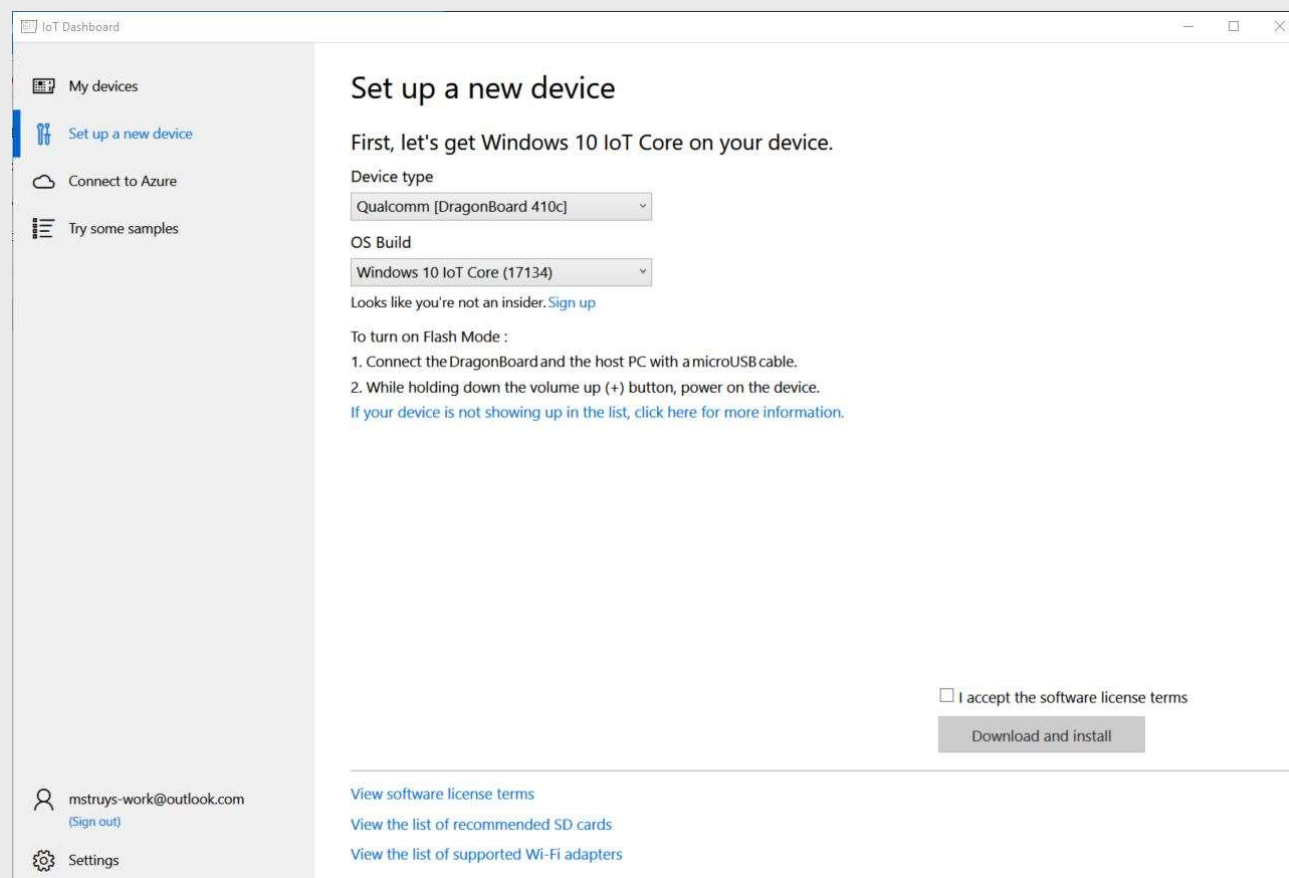
# Windows 10 IoT Core - Silicon Support

## Microsoft-enabled SoCs

Microsoft works alongside Broadcom, Intel, NXP, and Qualcomm to verify support for Windows 10 IoT Core on several vendors' system on a chip (SoCs). These IoT Core-powered SoCs are used in hundreds of different devices that you can use to prototype and commercialize your idea.

Broadcom	Intel	Qualcomm	NXP (coming soon)
BCM2837	Intel® Atom® processor E3900 series (Apollo Lake)	Snapdragon 410 (APQ8016)	i.MX 6QuadPlus
BCM2836	Intel® Celeron® processor N3350 (Apollo Lake)	Snapdragon 212 (APQ8009)	i.MX 6Quad
	Intel® Pentium® processor N4200 platform (Apollo Lake)		i.MX 6DualPlus
	Intel® Pentium® and Celeron® Processor N3000 Series (Braswell)		i.MX 6Dual
	Intel® Atom® x5-E8000 Processor (Braswell)		i.MX 6DualLite
	Intel® Atom® x5-Z8350 Processor (Cherry Trail)		i.MX 6SoloX
	Intel® Atom® Processor E3800 Product Family (Bay Trail-I)		i.MX 6SoloLite
	Intel® Pentium® and Celeron® Processor N and J Series (Bay Trail-M/D)		i.MX 6SLL

# Getting Started with IoT Core (IoT Dashboard)

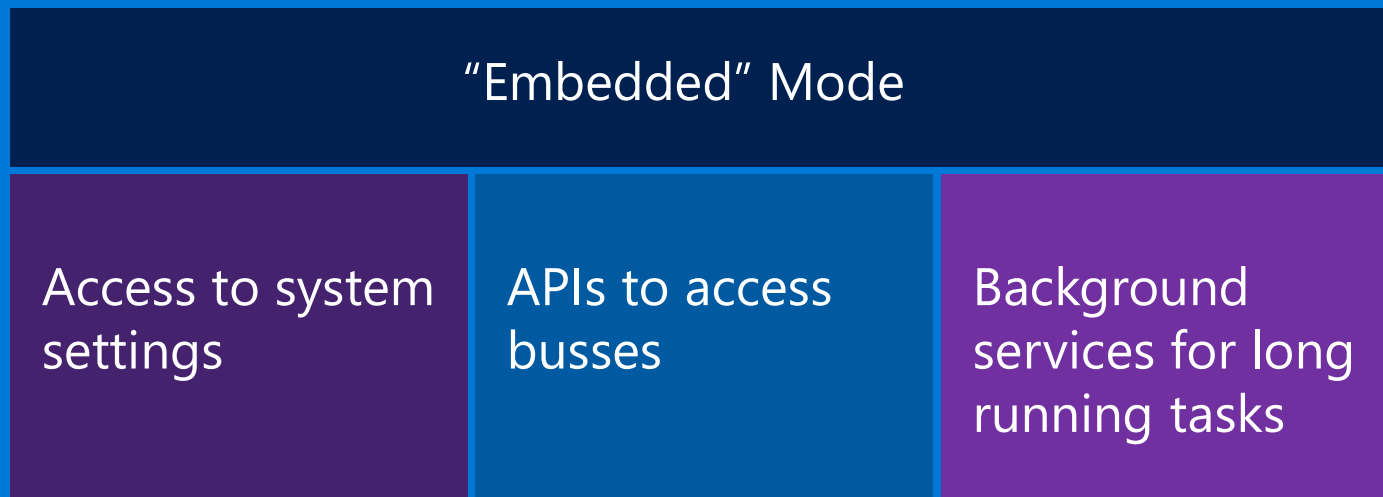


The screenshot shows the IoT Dashboard interface. On the left is a navigation sidebar with options: 'My devices', 'Set up a new device' (highlighted), 'Connect to Azure', and 'Try some samples'. At the bottom of the sidebar, it shows the user 'mstruys-work@outlook.com' with a '(Sign out)' link and a 'Settings' gear icon. The main content area is titled 'Set up a new device' and contains the following text: 'First, let's get Windows 10 IoT Core on your device.' Below this are two dropdown menus: 'Device type' set to 'Qualcomm [DragonBoard 410c]' and 'OS Build' set to 'Windows 10 IoT Core (17134)'. A link says 'Looks like you're not an insider. Sign up'. A section titled 'To turn on Flash Mode :' contains a numbered list: '1. Connect the DragonBoard and the host PC with a microUSB cable.' and '2. While holding down the volume up (+) button, power on the device.' Below the list is a link: 'If your device is not showing up in the list, click here for more information.' At the bottom right of the main area is a checkbox 'I accept the software license terms' and a 'Download and install' button. At the bottom of the page are three links: 'View software license terms', 'View the list of recommended SD cards', and 'View the list of supported Wi-Fi adapters'.

# Getting Started with IoT Core (IoT Dashboard)

The screenshot shows the IoT Dashboard interface. On the left is a navigation sidebar with options: 'My devices', 'Set up a new device', 'Connect to Azure', and 'Try some samples'. The main content area is titled 'Provision your device' and includes the instruction: 'In order for your device to talk to Azure, it needs to have proper credentials.' Below this are three dropdown menus: 'Azure IoT Hub' (selected: MST-IoTHub-S1 (Microsoft Azure Internal)), 'Azure device ID' (selected: MaartensDragonBoard), and 'Device to provision' (selected: MaartensDB 192.168.2.46). Each dropdown has a 'Create new' link. A green checkmark is next to the 'Device to provision' selection. Below the dropdowns, a message states 'The device has been successfully provisioned.' and a 'Provision' button is visible. At the bottom left of the dashboard, the user is identified as 'mstruys-work@outlook.com' with a '(Sign out)' link and a 'Settings' gear icon.

# Building IoT devices with UWP





# Windows 10

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Start building your devices universal  
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