

# TeamViewer IoT

# Company Facts

“~ 2bn installations



Founded in

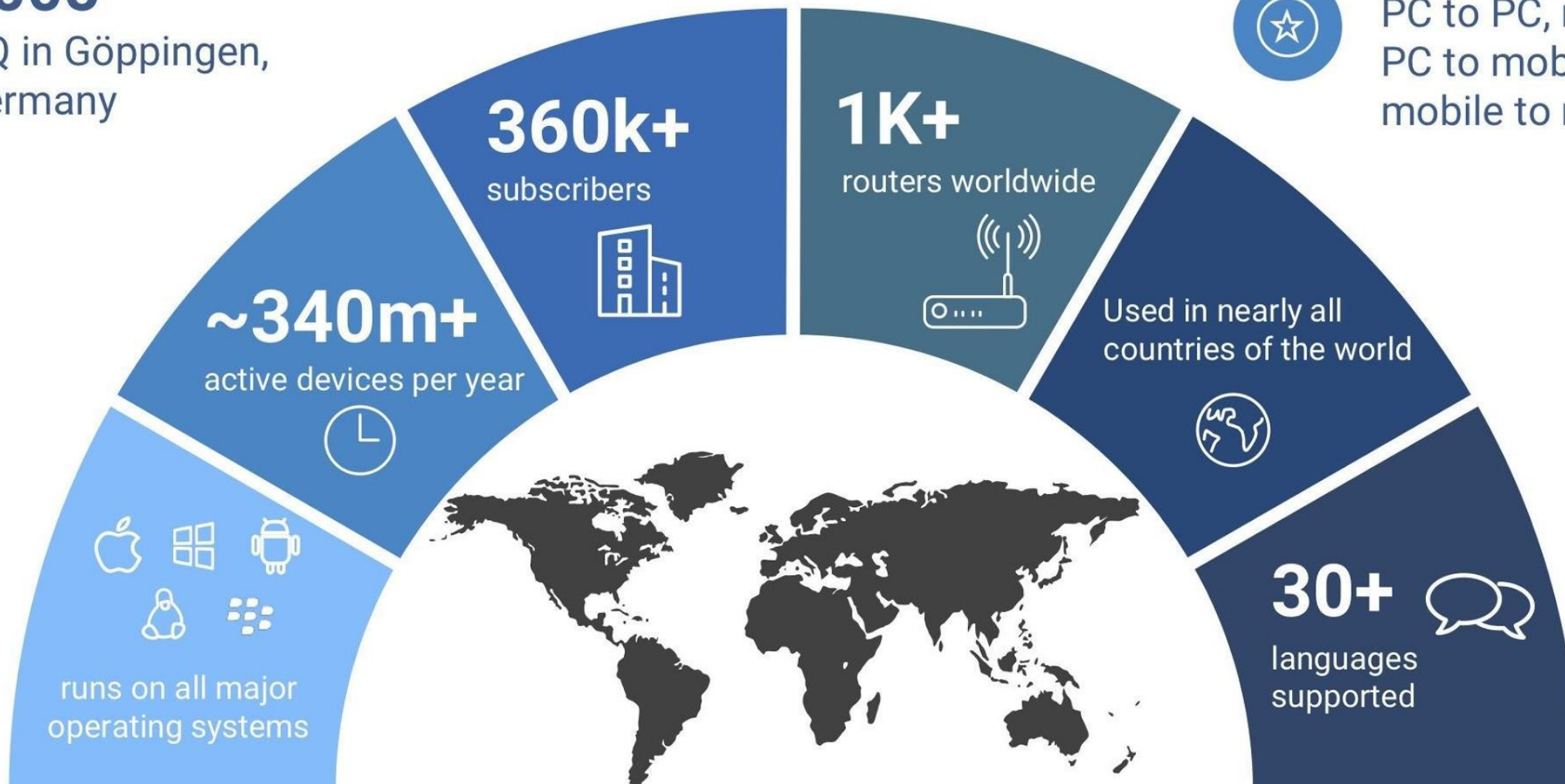
**2005**

HQ in Göppingen,  
Germany



**Multi-platform support:**

PC to PC, mobile to PC,  
PC to mobile, and even  
mobile to mobile



# Continuously Expanding Use Cases

New use cases leveraging core hyper-connectivity technology

Core business...

...innovating and extending into new use cases



Remote  
support



Remote  
access



Mobile  
Connectivity



Remote  
Work



Shared  
Workspace



Management  
& Monitoring



Enterprise  
SaaS



Internet of  
Things



Augmented  
Reality

*"Where we started"*  
**Majority of our revenues**

*"Where we have invested"*  
**Drivers for growth**

The ability to remote into anything has moved from "nice-to-have" to "must-have";  
in the future, no product will be exempt from remote connectivity

# Partner and Platform Investment



## OEM Partner



## Integration Partner



## Platform Investment





# We are connecting nearly everything



Point of Sale

Smart  
Glasses

CNC  
Machines

Engine  
Tuning

Fitness  
Machines

Smart TVs

Microscopes

Fish Farms

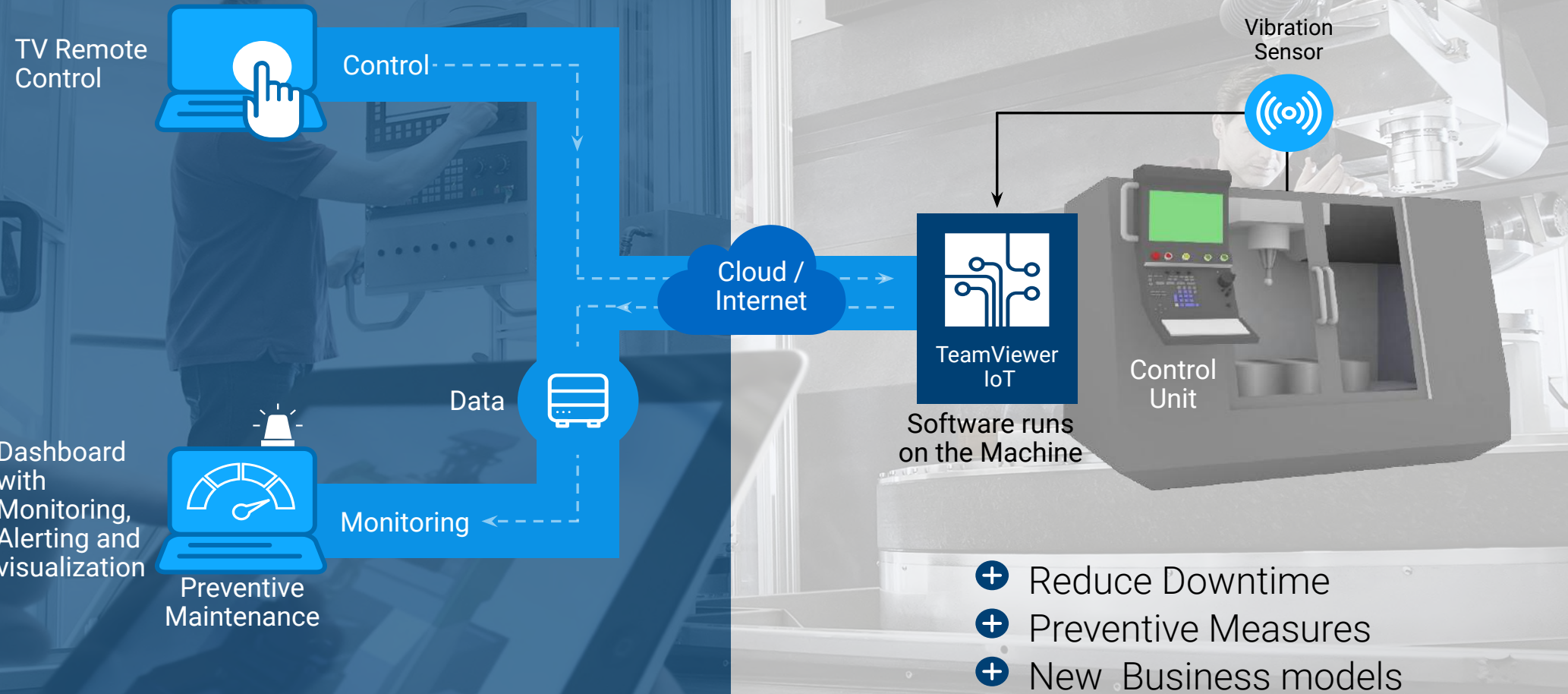
Smart Farms

Triscopes

Irrigation



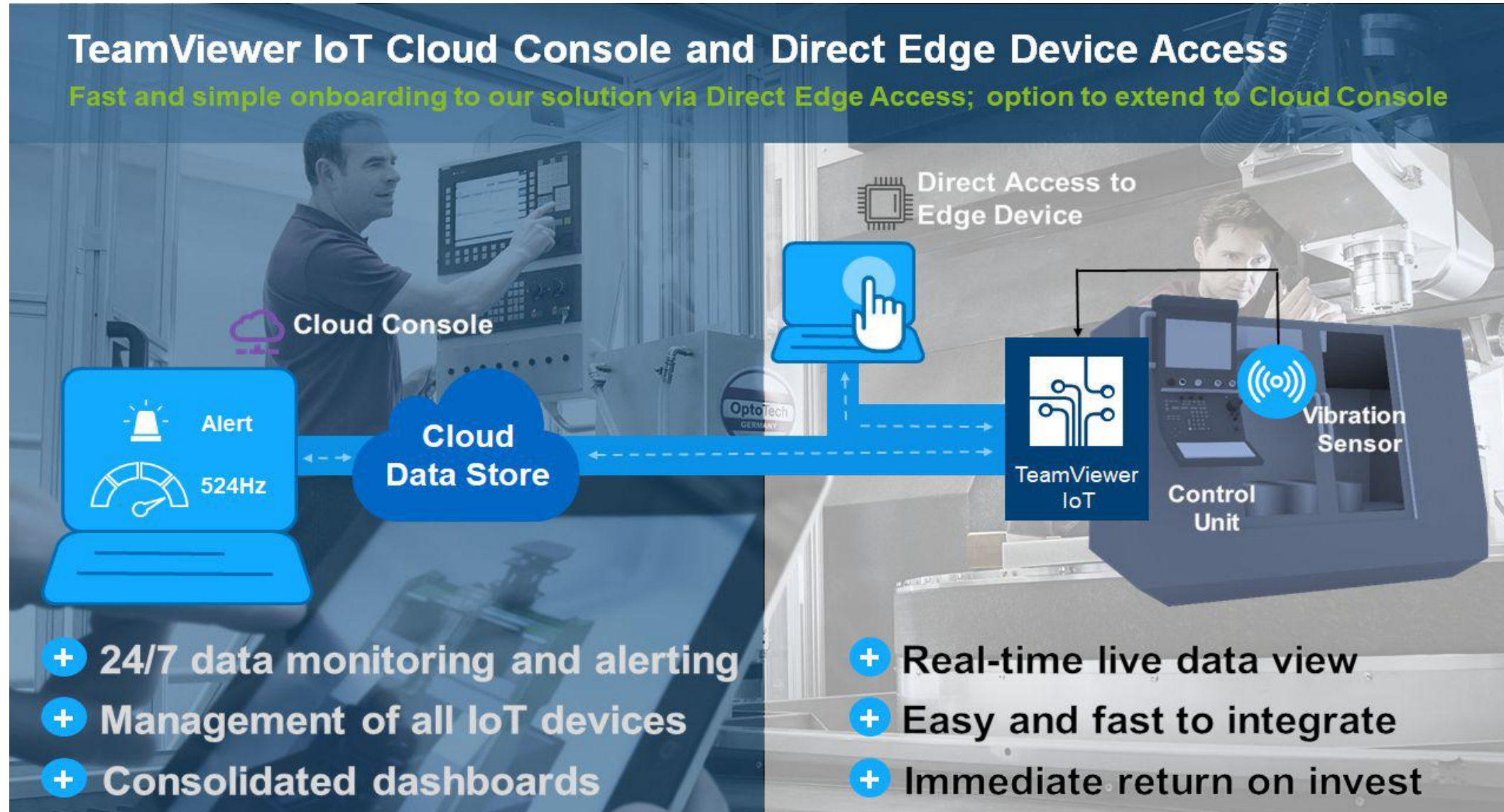
## TeamViewer IoT – Monitoring, visualization and Remote Control of IoT devices and sensor data





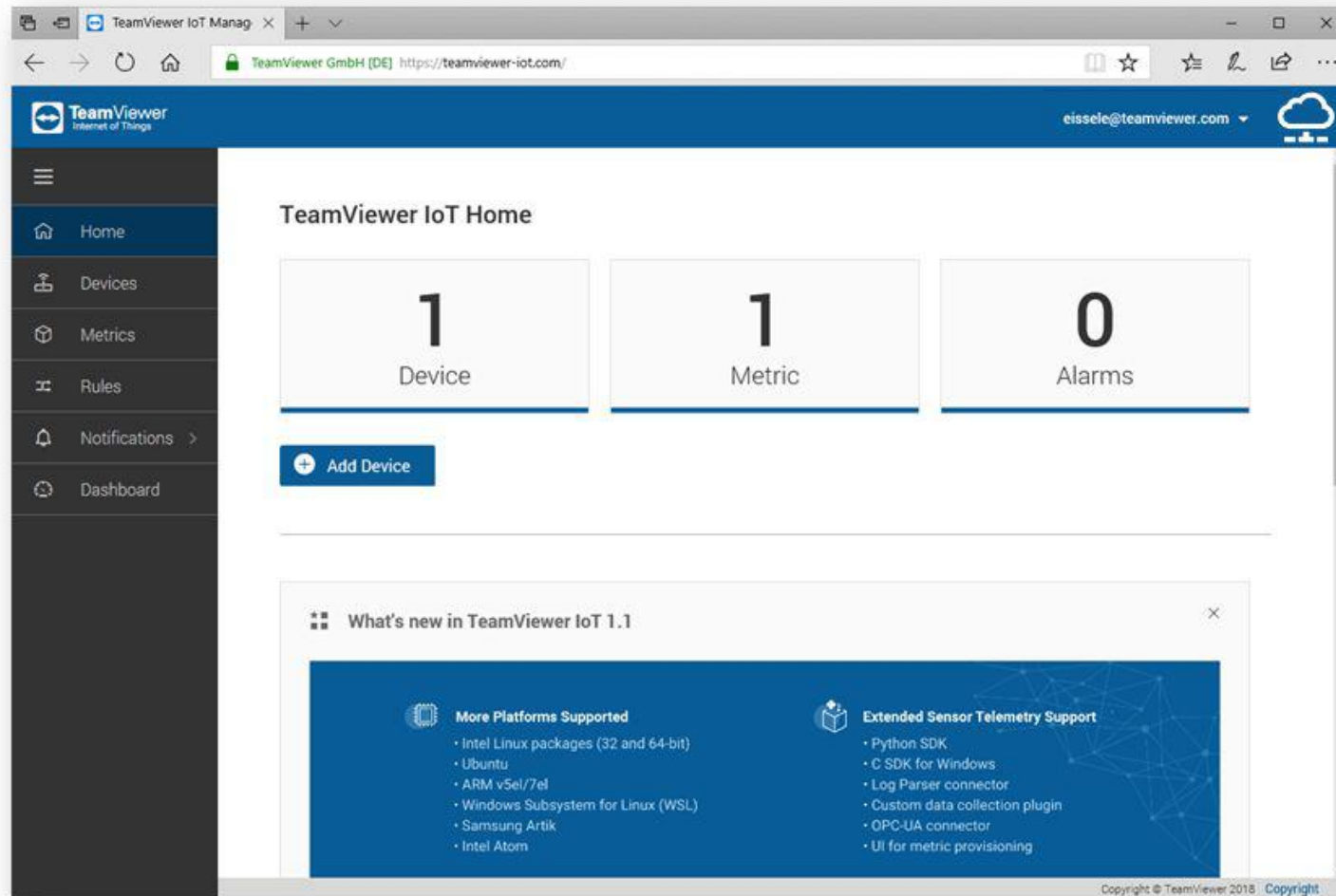
## TeamViewer IoT Cloud Console and Direct Edge Device Access

Fast and simple onboarding to our solution via Direct Edge Access; option to extend to Cloud Console



# TeamViewer IoT Cloud Console

Central console to manage and view all IoT devices



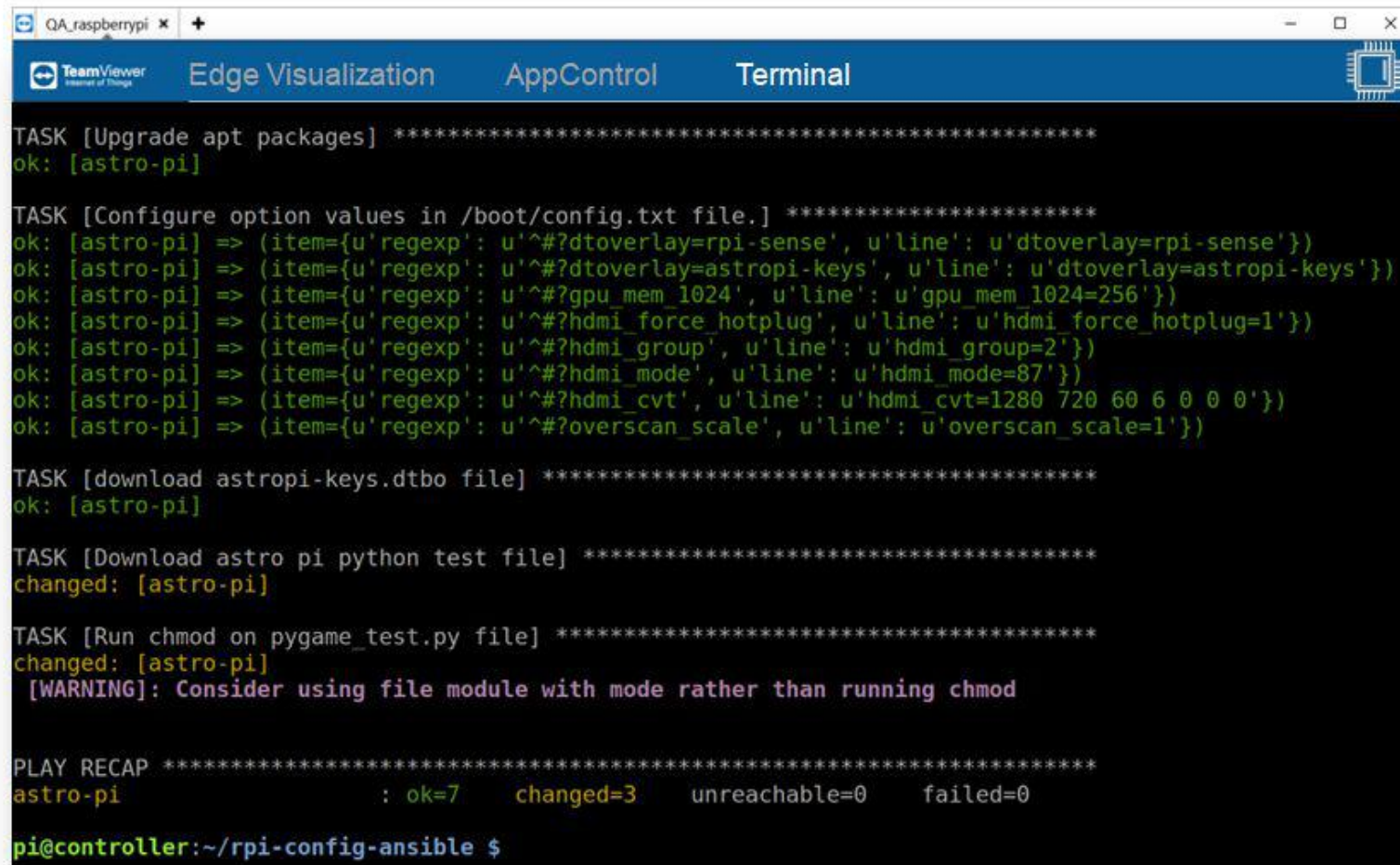
## Cloud Console

- Web based portal
- Device and sensor data management
- Rule and notification setup
- Data visualization on dashboards
- ... and more



# TeamViewer IoT Direct Edge Access

Low-level access to the device's shell is automatically embedded



The screenshot shows the TeamViewer IoT interface with a terminal window open. The terminal displays the output of an Ansible playbook for configuring an astro-pi device. The tasks include upgrading apt packages, configuring boot configuration options (dtoverlay, astropi-keys, gpu\_mem, hdmi\_force\_hotplug, hdmi\_group, hdmi\_mode, hdmi\_cvt, overscan\_scale), downloading dtbo and python test files, and running chmod on the python test file. The terminal output shows successful execution of most tasks, with a warning about using the file module for chmod. The final output shows the status of the tasks: ok=7, changed=3, unreachable=0, failed=0. The terminal prompt is pi@controller:~/rpi-config-ansible \$.

```
QA_raspberrypi x +
TeamViewer IoT
Edge Visualization AppControl Terminal
TASK [Upgrade apt packages] *****
ok: [astro-pi]

TASK [Configure option values in /boot/config.txt file.] *****
ok: [astro-pi] => (item={u'regexp': u'^#?dtoverlay=rpi-sense', u'line': u'dtoverlay=rpi-sense'})
ok: [astro-pi] => (item={u'regexp': u'^#?dtoverlay=astropi-keys', u'line': u'dtoverlay=astropi-keys'})
ok: [astro-pi] => (item={u'regexp': u'^#?gpu_mem_1024', u'line': u'gpu_mem_1024=256'})
ok: [astro-pi] => (item={u'regexp': u'^#?hdmi_force_hotplug', u'line': u'hdmi_force_hotplug=1'})
ok: [astro-pi] => (item={u'regexp': u'^#?hdmi_group', u'line': u'hdmi_group=2'})
ok: [astro-pi] => (item={u'regexp': u'^#?hdmi_mode', u'line': u'hdmi_mode=87'})
ok: [astro-pi] => (item={u'regexp': u'^#?hdmi_cvt', u'line': u'hdmi_cvt=1280 720 60 6 0 0 0'})
ok: [astro-pi] => (item={u'regexp': u'^#?overscan_scale', u'line': u'overscan_scale=1'})

TASK [download astropi-keys.dtbo file] *****
ok: [astro-pi]

TASK [Download astro pi python test file] *****
changed: [astro-pi]

TASK [Run chmod on pygame_test.py file] *****
changed: [astro-pi]
[WARNING]: Consider using file module with mode rather than running chmod

PLAY RECAP *****
astro-pi : ok=7 changed=3 unreachable=0 failed=0

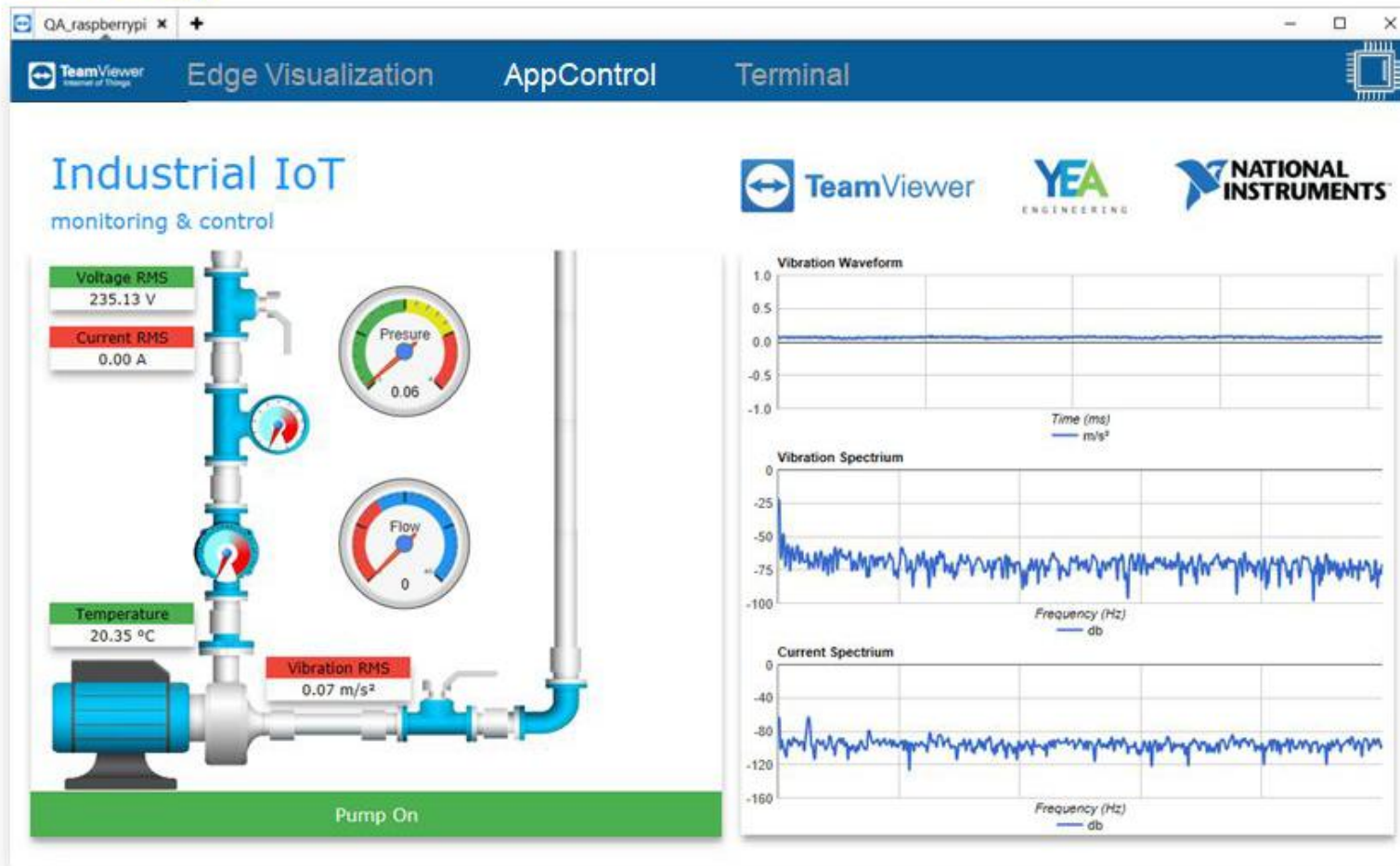
pi@controller:~/rpi-config-ansible $
```

## Remote Edge Device

- Terminal offers secure, direct shell access
- Full flexibility to fix and maintain already deployed devices

# TeamViewer IoT Direct Edge Access

The AppControl technology allows to securely access device hosted apps and UIs remotely



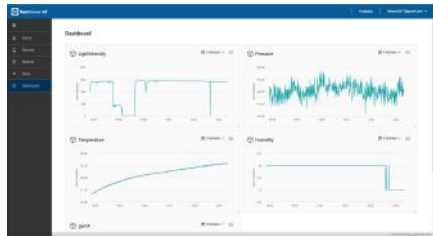
## Remote Edge Device

- AppControl offers customized apps on Edge Devices
- Easy and common HTML API
- Often, existing apps/UIs can be reused
- Zero development

# Device Classes Supported

Reach into multiple tiers

Cloud



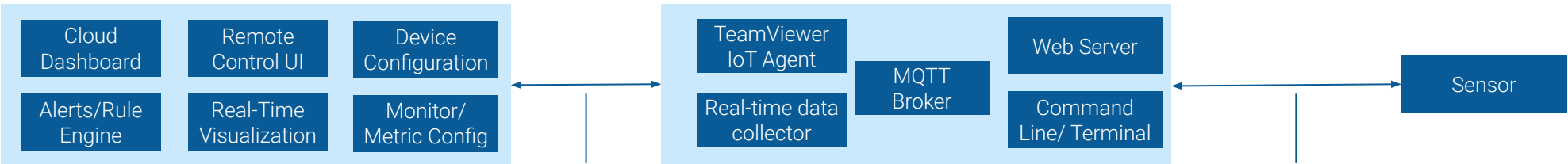
Local Aggregation/  
Complex Device  
(TV Endpoint)



Sensor/Actuator



## TeamViewer IoT Functional Footprint



- Proprietary TeamViewer protocol – hyperconnectivity at scale

- MQTT
- OPC-UA





Ready to use for attended or unattended IoT devices



### Remote Configuration

- Remote metric provisioning
- Auto detect nearby IoT devices

### Remote Control

- TeamViewer session (any device)
- Web App. Remote Access
- Remote Terminal access (CLI)
- Configurable Web Server port

### Alert Channel Management

- Notification management
- Email-based alerting
- Offline device notifications

### Real-time data visualization

- Real-time data streaming
- Remote control session
- IoT Cloud Dashboard

### Sensor Telemetry Support

- Python & C-for-Windows SDKs
- Log parser plugin
- OPC-UA plugin
- Custom data collection plugin

### Platforms Supported

- Raspberry Pi
- Intel Linux packages (32/64bit)
- ARM v5el/7el
- Windows for Linux (WSL)
- Samsung Artik
- Intel Atom

<https://www.teamviewer.com/en/products/iot/>