Onyxx-FS311

Who are typical users of the Onyxx SkySpark Edge Analytics Engine?

Anyone interested in gaining insight to their environment using analytics. This device features full SkySpark on the edge so anyone who uses SkySpark can use this device.

What use cases does the Analytics Engine resolve?

Application of SkySpark at the Edge addresses several important factors involved in real world projects. These include:

- Keep the data on premise
  - Addresses data security issues – many applications do not allow for data to be sent to the cloud
  - Reduces data transmission costs in constrained network environments. Example: sites connected to a cloud server via cellular networks
- Reliability of data collection
  - Collect data close to the sensors and control equipment for greater reliability and reduced risk of data loss due to Internet-based communications interruptions between equipment systems and cloud-only applications
- Easier scaling of large systems across multiple servers
  - Can be applied to clusters of large servers for very large-scale systems
  - Sync equipment level data results with the cloud on an as needed basis with Replication (later in 2018)
- Reduction in data transfer costs on cellular networks
  - In a conventional cloud-based data analytics system, all device and sensor data must be transferred to the cloud (central server) before any analytics or data visualization can be performed. With SkySpark Everywhere™ at the edge, data stays local and all analytics processing happens at the local device. Network traffic is only used when users want to view results. The data transfer volumes can be reduced by as much as 100 to 1.
- Lower overall cost
  - In many applications SkySpark at the Edge can eliminate the need to install other hardware and software such as gateways.

How many points or devices can be attached to a single analytics engine?

This device can support up to 1000 SkySpark points. There are three point pack options:

- Onyxx-FS311-20
  - Onyxx SkySpark Analytics controller with BACnet communications 20 points
- Onyxx-FS311-100
  - Onyxx SkySpark Analytics controller with BACnet communications 100 points
- Onyxx-FS311-1000
  - Onyxx SkySpark Analytics controller with BACnet communications 1,000 points

There are also two point adders:

- SS-POINT-10-OEM
  - Onyxx SkySpark Analytics 10-point adder
- SS-POINT-100-OEM
  - Onyxx SkySpark Analytics 100-point adder

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Does the device support SkySpark's clustering technology to allow multiple devices to be connected into clustered systems?

Yes. Clusters can include multiple Onyxx devices, PC's, servers, and cloud hosted instances of SkySpark.

Is the analytics engine UL916 certified, any other certifications (e.g. CSA, CE, etc.)?

FCC part 15 Class A, RoHS, CE, CAN IC-ES-3 (A)/NMB-3(A)

What is the *operating temperature range* of the analytics engine?

0-60 °C (32-140 °F)

Can the SkySpark instance on this device be upgraded?

Yes

Can the SkySpark demonstration project be run on the device?

The SkySpark demo project requires 130 points of capacity. If you purchase the device with 130 points or more, you can run the demo project.

Does the device include the full SkySpark feature set?

Yes, all apps, connectors, features and capabilities of SkySpark are included.

Does Lynxspring offer SkySpark software for use on server and cloud applications?

Yes, Lynxspring is a value-added distributor for the entire SkySpark product line.

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