The Avnet MicroZed™ Industrial IoT Starter Kit supports designers’ edge-to-cloud development of Internet-connected solutions and includes all the necessary building blocks for developing a production-ready, IoT-enabled, industrial processing system. The platform is based on Avnet’s MicroZed system-on-module (SoM) with Zynq®-7000 All Programmable SoC from Xilinx and pluggable sensor solutions from Maxim Integrated and ST Microelectronics.

**FEATURES**

**Production ready, MicroZed 7010 SOM**
- Based on Xilinx Zynq-7000 SoC
  - Dual ARM® Cortex™-A9 processing system
  - FPGA logic

**Expandable development platform**
- R3 Arduino-compatible shield expansion slot
- Two 2x6 peripheral module expansion slots
- Additional user header providing access to SPI, I2C, UART, and GPIO on MicroZed

**Linux enabled**
- Eases application development
- Certified binary image

**Connectivity**
- 10/100/1000 Ethernet Port
- Optional WILINK8 WiFi/BLE add-on

**Pluggable sensor options**
- ST Microelectronics motion MEMS and environmental sensor shield
  - Connects to shield site
  - Six I2C based sensor solutions
    - 3-axis accelerometer + 3-axis gyroscope
    - 3-axis magnetometer
    - Humidity and temperature
    - Pressure
  - Maxim Integrated thermocouple-to-digital peripheral module
    - Connects to 2x6 peripheral module
    - SPI-based interface
    - Able to measure temperatures from -270°C to +1800°C
    - Includes K-type thermocouple

To purchase this kit, visit www.microzed.org
## PARTS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Resale</th>
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<tbody>
<tr>
<td>AES-Z7MB-IIOT-AWS-G</td>
<td>MicroZed IIoT Starter Kit</td>
<td>$299 USD</td>
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## RELATED PARTS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Resale</th>
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<tbody>
<tr>
<td>210-299P-KIT</td>
<td>JTAG Programming/Download Cable (HS3)</td>
<td>$56 USD</td>
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<tr>
<td>AES-Z7MB-7Z010-SOM-G</td>
<td>MicroZed 7010 SOM</td>
<td>$165 USD @ 100 units</td>
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<tr>
<td>AES-Z7MB-7Z020-SOM-G</td>
<td>MicroZed 7020 SOM</td>
<td>$197 USD @ 100 units</td>
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<tr>
<td>AES-Z7MB-7Z010-SOM-I-G</td>
<td>MicroZed 7010 SOM - Ind. Temp</td>
<td>$201 USD @ 100 units</td>
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<td>AES-PMOD-WILINK8-G</td>
<td>WiLink™ 8 Wi-Fi and BT/ BLE Pmod Adaptor</td>
<td>$34 USD</td>
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<tr>
<td>WL1837MODCOM8I</td>
<td>WiLink™ 8 Dual Band 2.4 and 5 GHz Wi-Fi® + Bluetooth® COM8 Evaluation Module</td>
<td>$49 USD</td>
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Countries Available for Purchase: Americas, EMEA, Asia, Japan