AeroGrid+ is a drone swarm technology that facilitates the formation of an interconnected swarm of drones that operate autonomously by sharing situational awareness and operational information.

AeroGrid+ is drone-agnostic and can be used with most drones. It is driven by a software application which can be changed in order to change the functionality of specific drones in the swarm.
AeroGRID+ hardware platform includes one or more Multi-Input-Multi-Output (MIMO) mesh radios operating in the unlicensed ISM frequency bands of 2.4GHz or 5.8GHz supporting secure broadband IP links. Platform Model AG100 contains a single 2x2 MIMO radio and Model AG100PRO contains two 2x2 MIMO radios for extended range.

### Frequencies/Protocols
<table>
<thead>
<tr>
<th>Protocols</th>
<th>ISM frequency bands – 2.4GHz, and 5.8GHz. Protocols 802.11a/b/g/n/ac</th>
</tr>
</thead>
</table>

### Radio Performance
<table>
<thead>
<tr>
<th>Radio Performance</th>
<th>Frequency</th>
<th>2.4 GHz</th>
<th>5.8 GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration</td>
<td>Tx Power</td>
<td>1000mW, 30 dBm</td>
<td>500mW, 27 dBm</td>
</tr>
<tr>
<td></td>
<td>Rx Sensitivity</td>
<td>-96 dBm</td>
<td>-96 dBm</td>
</tr>
</tbody>
</table>

### Antennas
- 3.8dB = 7.5 in (6.6 in + knee), 3.2dB = 5.9in (5 in + knee), 2dB @ 4.25 in (3 in + knee)

### Routing Protocol
- Derivative of the popular BATMAN routing protocol. Ideal for multi-hop ad hoc mesh networks due to reduced throughput degradation compared to other standard protocols.

### Security
- Embedded security design including FIPS 140-2 encryption and SSH and VNC for remote configuration. AES 256 encryption.

### Dimensions (w/o antennas)
- Model AG100 = 3.5 in (L), 2.0 in (W), 2.0 in (H)
- Model AG100PRO = 3.5 in (L), 2.5 in (W), 3.0 in (H)

### Weight (w/antenna, w/o case)
- Model AG100 = 4 oz., Model AG 100PRO = 8 oz.

### Power
- 8 - 60 VDC

### Temperature
- Operating = -40°C to +85°C
- Storage = -40°C to +85°C

### Humidity
- Operating = 20% to 90% Non-condensing
- Storage = 5% to 95% Non-condensing

### Video Input
- HDMI @ 1080p 30 max. HDMI Micro Connector

### Video Output
- HDMI @ 1080p 60 max. HDMI Micro Connector

### Ethernet
- 10/ 100 BASE-T, RJ-45 Connector

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**AeroGRID+ Model AG100**

**AeroGRID+ Model AG100PRO**

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