



AIRAYA

APPLICATION NOTE

WirelessGRID™ and Solis Energy

AIRAYA + Solis Energy: Your Total Product and Solar Solution

AIRAYA and Solis Energy have teamed up to provide you with a total solution for your wireless requirements. We provide the perfect solution for government, service providers, public safety, education, healthcare and enterprise network applications that require fast and affordable outdoor wireless multipoint and backhaul (point-to-point), and mobile equipment for high capacity requirements. Solis Energy offers a complete platform of Power Generators to deliver solar generated electricity to your low wattage, remote applications – anytime and anywhere.

Product	Volt	Amp	Watts	Solar Power Plant					Cyclical UPS
MSU	12	0.55	6.6	SPP-AIR-44	SPP-AIR-24	SPP-AIR-13	SPP-AIR-11	SPP-AIR-11	UPS-AIR-10
PoE 1 Radio	48	0.1458	7	SPP-AIR-54-P	SPP-AIR-34-P	SPP-AIR-23	SPP-AIR-11-P	SPP-AIR-11-P	UPS-AIR-12-P
PoE 2 Radio	48	0.2917	14	SPP-AIR-77-P	SPP-AIR-57-P	SPP-AIR46-P	SPP-AIR-33-P	SPP-AIR-23-P	UPS-AIR-14-P
PoE 3 Radio	48	0.5833	28	Call	Call	Call	SPP-AIR-56-P	SPP-AIR-46-P	UPS-AIR-16-P
MSU+Panasonic WVBP-332 Camera	12	0.8333	10	SPP-AIR-65	SPP-AIR-45	SPP-AIR-34	SPP-AIR-22	SPP-AIR-12	UPS-AIR-10
MSU+PoE Mobotix Camera	12	0.9167	11	SPP-AIR-76-P	SPP-AIR-56-P	SPP-AIR-34-P	SPP-AIR-22-P	SPP-AIR-22-P	UPS-AIR-13-P
MSU+Axis 214 PTZ Camera	12	1.75	21	Call	Call	Call	SPP-AIR-44	SPP-AIR-34	UPS-AIR-15
* See the AIRAYA Ordering Guide for partn numbers				Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	

Solution Highlights

The WirelessGRID™ series of outdoor wireless bridges and Solis Energy

Proven, Fast, Reliable

- Together, AIRAYA provides proven, world-class equipment and Solis Energy guarantees that you will be up and running 100% of the time, without fail.
- Quickly and accurately match AIRAYA products with the best Solis Energy power solution.

AIRAYA's WirelessGRID™ Series of Outdoor Wireless Bridges feature:

- Frequency: 2.2 – 2.5 GHz and 4.4 – 6.1 GHz
- Data Rates: 108 Mbps Half Duplex; 216 Mbps Full Duplex
- Range: Up to 30 miles (50 km)
- Channel Width: 5, 10, 20 & 40 MHz

Minimum Daily Solar Radiation per Month

Solar Zones



AIRAYA	Solis Energy	Total Solution
<p>AIRAYA's WirelessGRID™ series of outdoor-ready wireless Ethernet radios are designed for rapid deployment in harsh environments. Utilizing OFDM technology in the 2.2 – 2.5 GHz and 4.4 - 6.1 GHz frequency range, these radios are layer-2 bridges, operate in Multipoint and Backhaul (Point to Point) mode, and are available in fixed and mobile/solar configurations.</p>	<p>Solis Energy's Smart Enclosure™ is completely engineer friendly for reliable, in-field set-up. Cable glands are designed to be large enough to accommodate pre-terminated Ethernet or antenna cables. Everything can be pre-configured and tested in your office to minimize the amount of work on-site and reduce in-field installation errors. Provides continuous power for up to 7 days without sunlight.</p>	<p>Reliable and easy to install</p>
<p>AIRAYA's extended operating range and exclusive channel structure (5, 10, 20, or 40 MHz-wide channels) maximize configuration flexibility and enhance system design, optimize spectrum usage and data throughput, while providing superior data, video, and voice services at increased distances.</p>	<p>Efficiently power your equipment via direct 12/24 vDC or optional 48 vDC, Power over Ethernet (POE), or inverter supplied AC. Durable enclosure and quality components assure long system life and continuous power delivery over a wide range of temperature and climate variations.</p>	<p>Flexible, versatile and rugged</p>

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