

INDUSTRIAL LiFi ACCESS POINT (AP)



LiFi MAX ACCESS POINT



LiFi MAX USB A or C DONGLE

PRODUCT OVERVIEW

Terra Ferma partnered with OLEDComm developing an Industrial Light Fidelity (LiFi) Access Point (AP). LiFi uses the visible and Infrared spectrum rather than radio waves to transmit / receive communications data. This is a similar concept to Fiber Optic transmission; however no transport medium is required.

KEY ADVANTAGES:

- 01 CYBER SECURE**
 - IR LIGHT DOES NOT PASS THROUGH WALLS, DOORS OR WINDOW SHADES
 - VLAN MANAGEMENT TO THE DONGLE
- 02 HIGH SPEED (150MBPS UP / 150MBPS DOWN)**
- 03 INTEGRATED LIFI CONTROLLER MINIMIZES RF FOOTPRINT & LOGISTICS**
- 04 MINIMIZES RF FOOTPRINT & LOGISTICS**
- 05 GLOBALLY DEPLOYABLE, NO FREQUENCY CLEARANCE REQUIRED**
- 06 LOW LATENCY, SUPPORTS HD VOICE AND VIDEO APPLICATIONS**
- 07 UL & CE MARK**

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LiFi OVERVIEW

Terra Ferma has deployed thousands of Power over Ethernet (PoE) Switches, Injectors and Surge Suppressors around the world achieving unparalleled degrees of scalability for both commercial and Government markets. Based on this experience, Terra Ferma partnered with OLEDComm developing an Industrial Light Fidelity (LiFi) Access Point (AP). LiFi uses the visible and Infrared spectrum rather than radio waves to transmit / receive communications data. This is a similar concept to Fiber Optic transmission; however no transport medium is required.

LiFi ENABLED CYBER SECURITY



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TECHNICAL SPECIFICATIONS

Model #	LiFi-MAX-AP Access Point LiFi-MAX-Surface Surface Mount Accessory LiFi-MAX-Recessed Recessed Mount Accessory LiFi-MAX-Dongle-A USB-A Dongle LiFi-MAX-Dongle-C USB-C Dongle
LiFi Standards	ITU G.991, IEEE 802.11bb (to be ratified May 2022)
Security	AES 128 (256 Available), 802.1X Authentication, Captive portal & VLANs
Material Finish	ABS Plastic
Power	PoE (IEEE 802.3af) - plug & play
Data Connectors	Receptacle: RJ45-Ethernet
Optical	TX/RX: LED 940nm (infrared)
Coverage Area	83° lens angle, circular, 10 m ² at 2m vertical distance
Maximum Users	16 users per access point
Handover / Roaming	Fast handover/roaming with dynamic bandwidth allocation (OledComm Patent) is supported by the LiFi MAX Controller. Synchronization of access points required with the RJ45 synchronization cable(s).
Mounting	Indoor Surface Mount and Recessed Mount accessories available
Physical Dimensions	6" circumference x 1.25" height (150mm x 30mm)
Weight	300 grams
Safety	UL-62368-1 US/Canada certification, IEC/EN 61000 (EMC), IEC/EN 62471, RoHS, CE Mark
Environmental	IP-30
Operational Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)

TERRA FERMA, LEADING INDUSTRIAL IOT

For more than 10 years, Terra Ferma's engineers have been involved in increasingly sophisticated communications projects. As these projects branched into new sectors, the need for new, more capable products were realized. Terra Ferma was developed to fill this growing need and has brought power products for communication systems to a new level and a broader market.

GET A FREE QUOTE

For additional information and a free quote please contact your
TERRA FERMA Sales Representative.

Or reach us online at TerraFerma.com