



KEY FEATURES

Rapidly deploy high reliability GrowFlux Mesh networks

Network up to 200 GrowFlux Mesh devices, including lighting controls, GrowFlux Mesh enabled lights, and sensors

Provides always-on internet connectivity via wired Ethernet connection

Scales to farms of any size with additional Access Points

Internal high performance sub-GHz antenna

Lithium coin cell backed date and time

Long range, reliable wireless communications - all layers are securely encrypted

Easy installation and setup with any smartphone, suitable for retrofit & new installations

The GrowFlux Access Point wirelessly connects GrowFlux Mesh devices to the Cloud via a wired Ethernet interface, providing permanent and high reliability connectivity to your devices.

GROWFLUX MESH

Works together with GrowFlux Mesh enabled products to propagate a high reliability wireless network locally within your farm. Utilizing 900MHz frequencies for ultimate range and reliability, GrowFlux Mesh is built for critical production environments and is hardened against security threats with AES128 and TLS encryption. Network reliability is assured with channel hopping, self healing mesh connections, and smart range extension.

BUILT FOR OPERATIONS CONTINUITY

Reliable through power outages, internet outages, and on-the-fly changes to devices to the network to ensure that your farm runs on schedule no matter what. Each device stores a schedule, and the Access Point contains a battery backed clock to keep accurate date and time on site through power and internet outages.

EASY SOFTWARE ZONING

Reconfigure your farm with ease with software defined zones. Schedules and settings are sent to all devices in a zone at once, eliminating repetitive programming tasks.

CONTROL FROM ANY DEVICE

Monitor, schedule, and control your lighting network from anywhere with the GrowFlux App for iOS and Android, or the browser based GrowFlux app at <https://panel.growflux.com>.



GENERAL SPECIFICATIONS	
Dimensions:	100mm x 100mm x 24.5mm (3.93" x 3.93" x 0.96")
Weight:	100g (3.5oz)
Ingress Protection:	IP5x - protected against limited dust ingress
Operating Temperature Range:	-20 to 60°C (-20 to 140°F)
ELECTRICAL SPECIFICATIONS	
Voltage input:	5 VDC via USB C power connector
Current consumption:	400mA absolute max current draw
Backup Battery:	Internal user servicable CR-2032 lithium battery stores date and time
WIRELESS SPECIFICATIONS	
Wireless protocol:	GrowFlux Mesh - standards based wireless mesh based on 802.15.4; requires GrowFlux Access Point and Ethernet internet connection for remote management.
Security:	RF data is AES128 encrypted; application layer is TLS encrypted. No inbound connections
Wireless frequency:	902-928MHz; 2.4GHz (North America Market; ITU Region 2)
Wireless range:	500-1000 feet line of sight for most devices (Access Point to Lighting Adapter or Access Point to Universal Dimmer); reduced to 300 feet indoors through most types of walls. Capable of 10km+ (6 mile+) wide networks with meshing ¹ . Range may vary for third party devices 'Powered by GrowFlux'.
Meshing:	Automatically meshes to nearest always-on device, such as a Universal Dimmer, Repeater, or compatible GrowFlux Mesh enabled light; Smart range extension & self healing mesh ¹
Bluetooth capability:	Internal Bluetooth radio used for initial setup
Radio Power:	Up to +12dBm
Antenna:	Internal sub-GHz antenna
ADDITIONAL SPECIFICATIONS	
Firmware updates:	Over the air updates via GrowFlux App. Software updates will appear in the device settings panel in the GrowFlux App. Firmware updates are user-installed with one click.
Compatibility:	Compatible with all GrowFlux products marked for North America use. Compatible with all products marked 'Powered by GrowFlux' marketed by GrowFlux partners.

Notes:

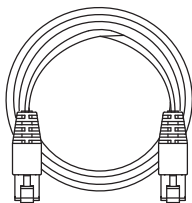
1. Universal Dimmers, Lighting Adapter lighting controls, GrowFlux Mesh enabled lights, and always-on GrowFlux Mesh enabled sensors will extend network range of nearby devices by automatically meshing to devices at the edge of the network. 10km+ (6 mile+) network range is possible for networks incorporating devices spread out over large areas such as farms and cities. Always on devices will extend battery life of nearby battery powered sensors by automatically relaying messages, allowing sensors to reduce transmit power. Building materials such as metal, concrete, metal stud walls, and metal paneling will affect indoor through-wall range. GrowFlux Mesh typically performs with 100-300 foot range through concrete floors, CMU walls, brick walls, metal stud walls, and low-e coated windows.

2. Products marked for North America use will indicate '-NA' at the end of the part number.

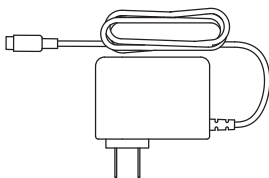
Whats Included



Access Point

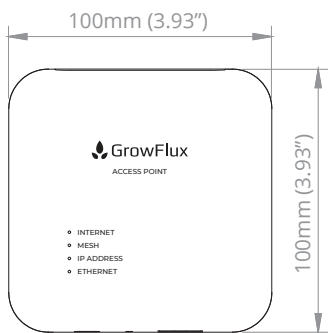
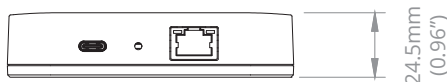


Ethernet Cable



USB C ADAPTER

Drawings



Ordering Information

Typical Part Number

GFX - AP - NA
1 2

1 - Series Name
AP - GrowFlux Access Point

2 - Region
NA - North America, 900 MHz wireless