



NETDIMMER – MESH NETWORK

INSTALLATION EXAMPLES

NETDIMMER NETWORKS

- MESH Gateways
 - Span large distances (several miles)
 - Scalable deployment
 - Master/Slave (up to 16 slaves per Gateway)
 - Low cost slave direct LED drivers (TRIAC, PWM, 0-10VDC, AC Switched)
 - Optional sensor inputs (Motion detect, energy use, environment, light levels)
 - Fault detection and alerting
 - Stand alone (isolated) operation option
 - Local monitoring and control via browser device
 - Cloud base monitoring and reporting

NETDIMMER MESH GATEWAY

- Central wireless gateway controller
 - Interface to local internet access point via Wireless or Ethernet
 - Links up to 16 separate wireless driver modules
 - Mixed driver options (TRIAC, 0-10VDC, Direct DC PWM)
- Distributed LED drivers
 - Self-healing network (continues to operate if node is off-line)
 - Spans very large distances (up to 100 miles)
 - Multiple lights per module (up to 24 depending on wattage)
 - Off-line detection
 - Amp sensor in each driver reports back to central gateway



WIRELESS MESH NETWORK

netDimmer
wireless
mesh
gateway

Mesh Wireless
Driver (range to
4000 ft)

Mesh Wireless
Driver (range to
4000 ft)

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4000 ft)

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4000 ft)

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4000 ft)

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4000 ft)

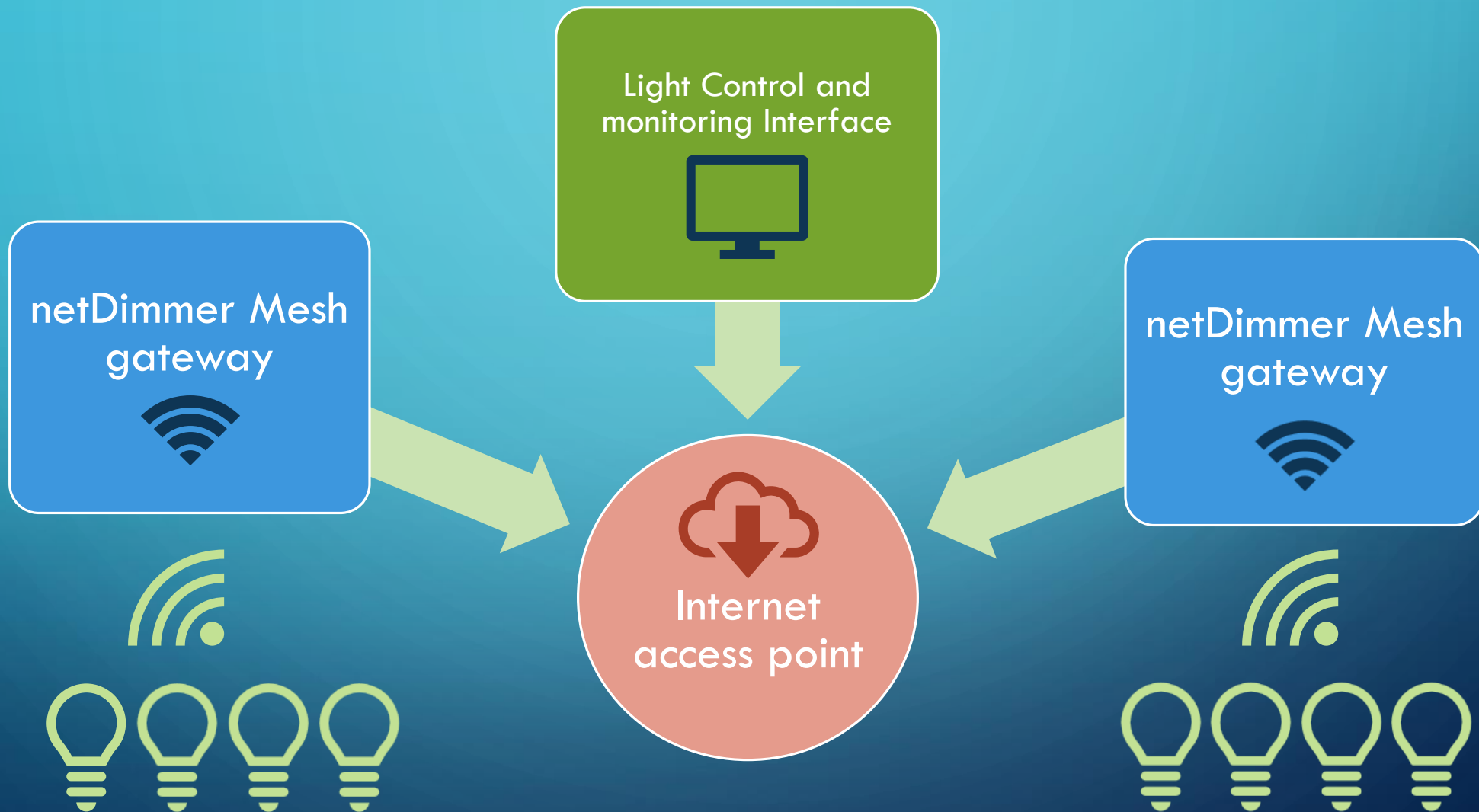
Mesh Wireless
Driver (range to
4000 ft)

Mesh Wireless
Driver (range to
4000 ft)

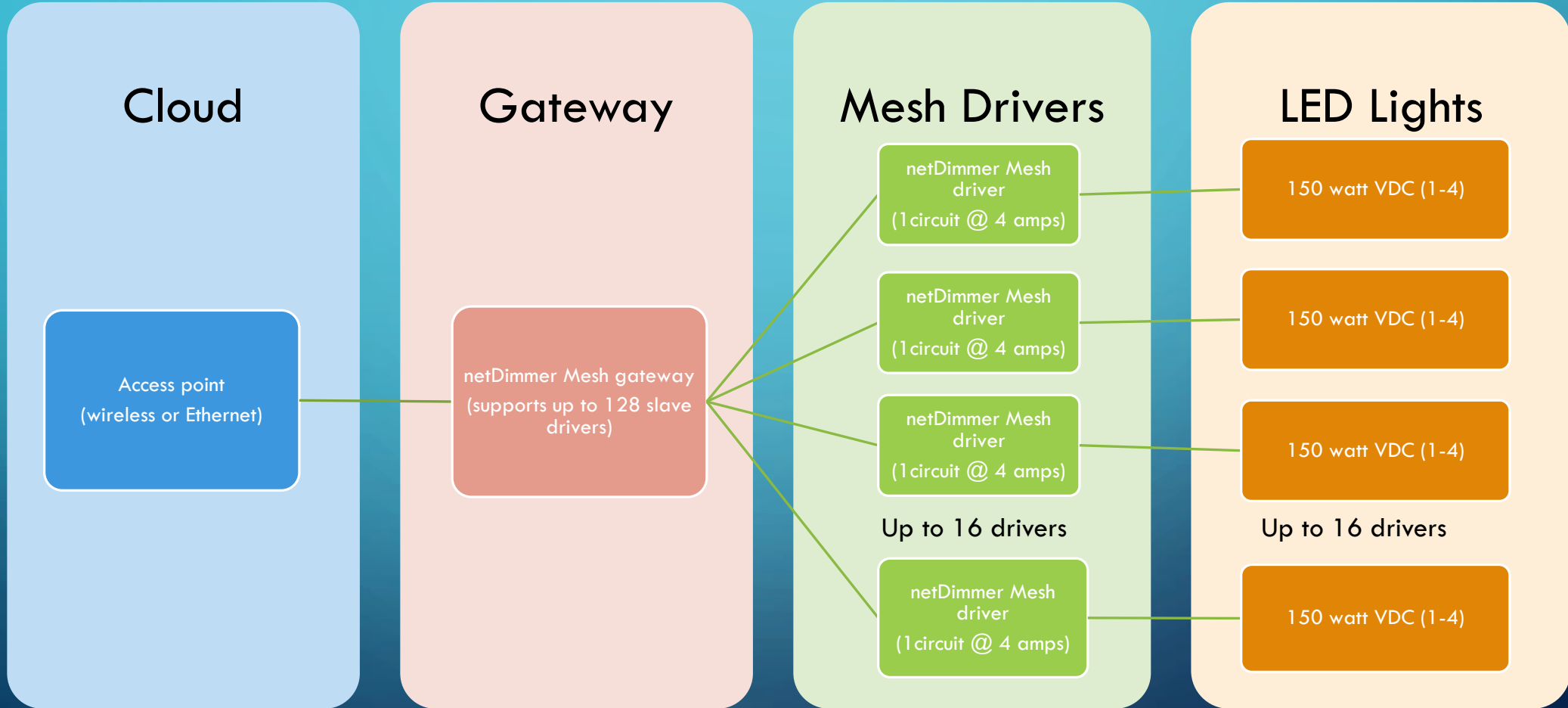
Mesh Wireless
Driver (range to
4000 ft)

Mesh Wireless
Driver (range to
4000 ft)

NETDIMMER – MESH NETWORK

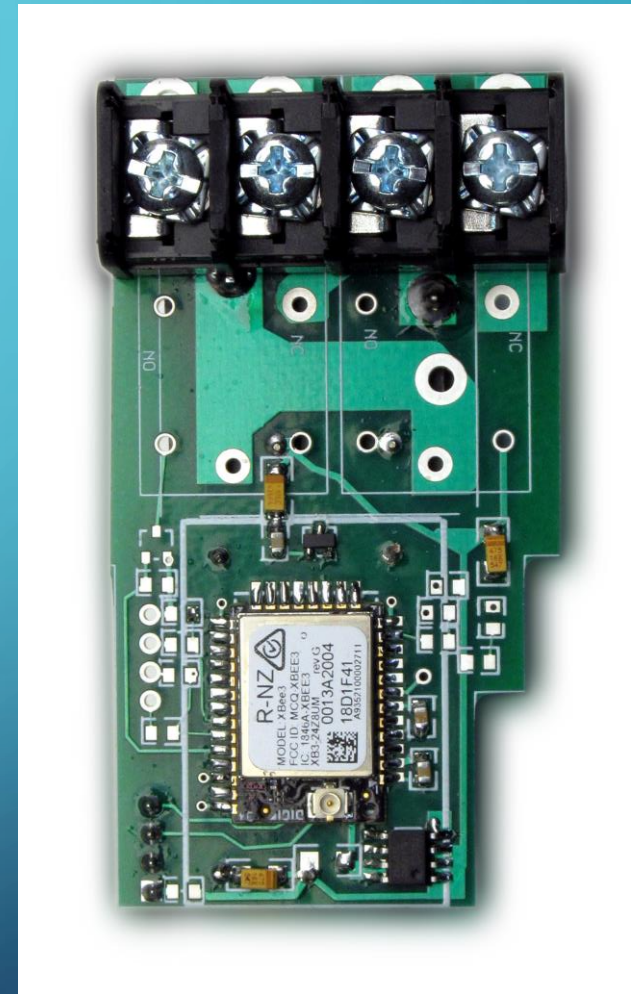


NETDIMMER MESH GATEWAY

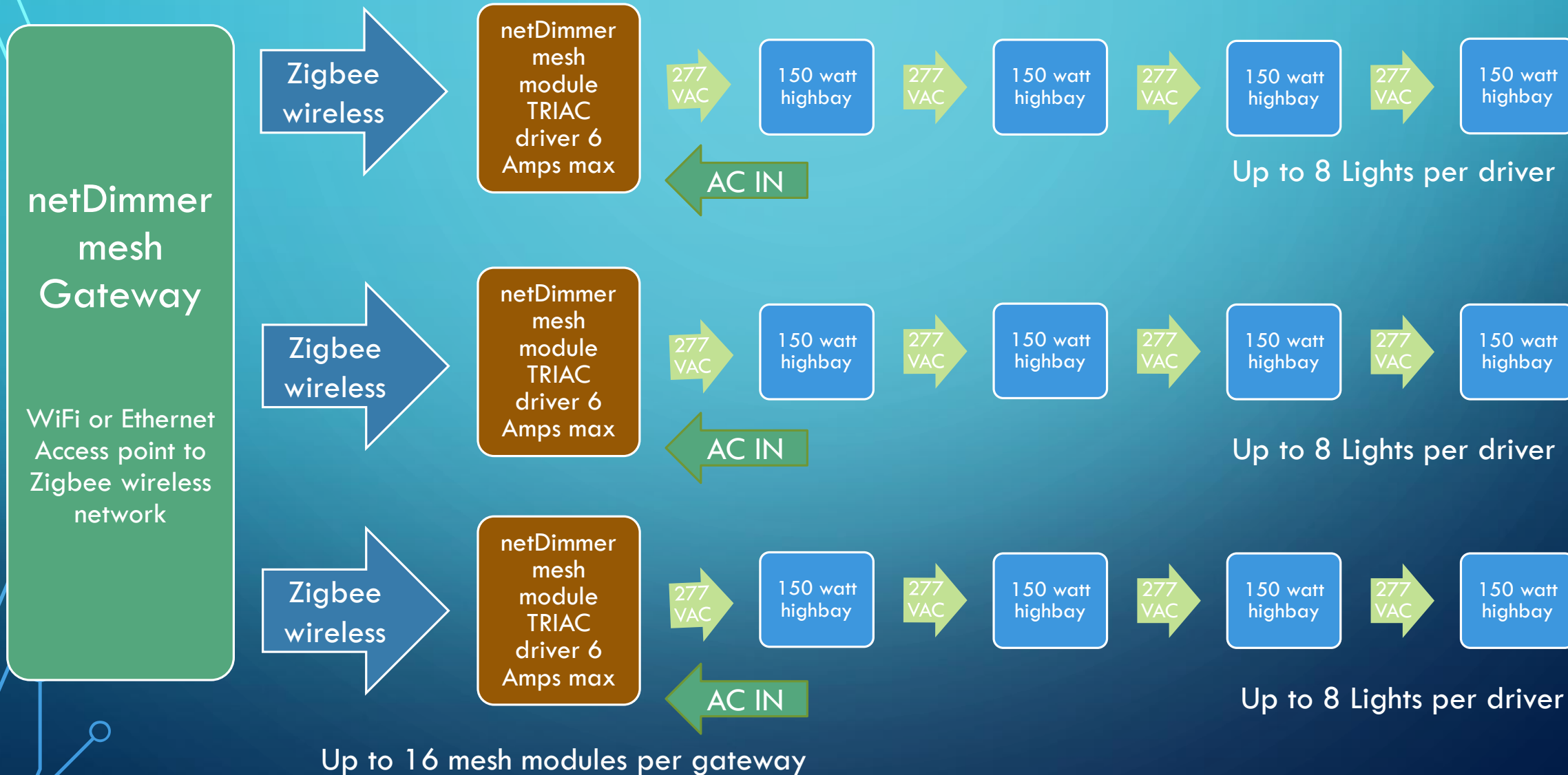


NETDIMMER NETWORKS

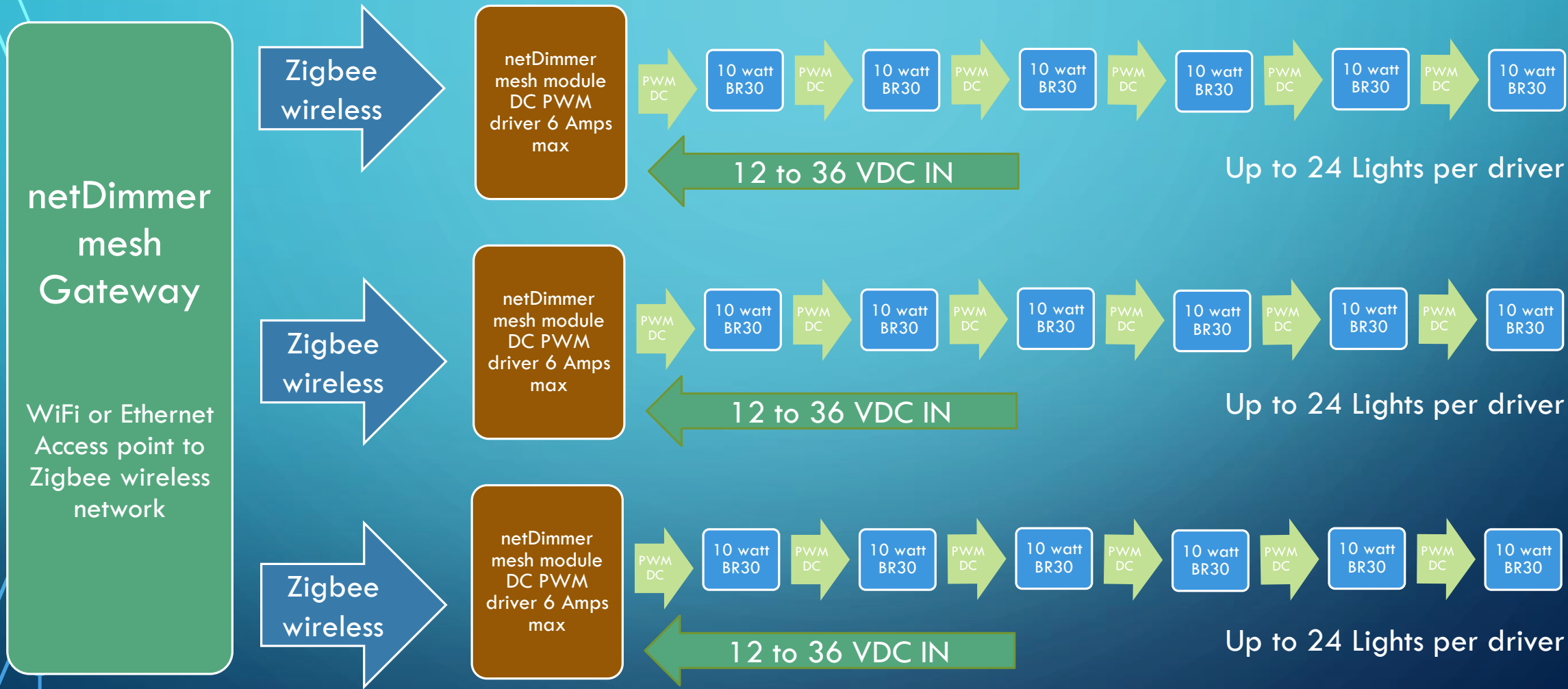
- MESH Dimmer Modules
 - Support many types of LED drivers (VDC, PWM, AC Switched, TRIAC)
 - Indoor and Outdoor rated (NEMA 7 option)
 - Master/Slave (up to 16 slaves per Gateway)
 - Provides operational status to gateway
 - Zigbee style wireless for link redundancy
 - Can function as stand alone controller without gateway
 - Fits into single gang electrical box
 - Direct AC powered to 480 VAC



NETDIMMER – WIRELESS TRIAC DRIVERS (HIGHBAY)



NETDIMMER – WIRELESS PWM DRIVERS (DC)



Up to 128 mesh modules per gateway

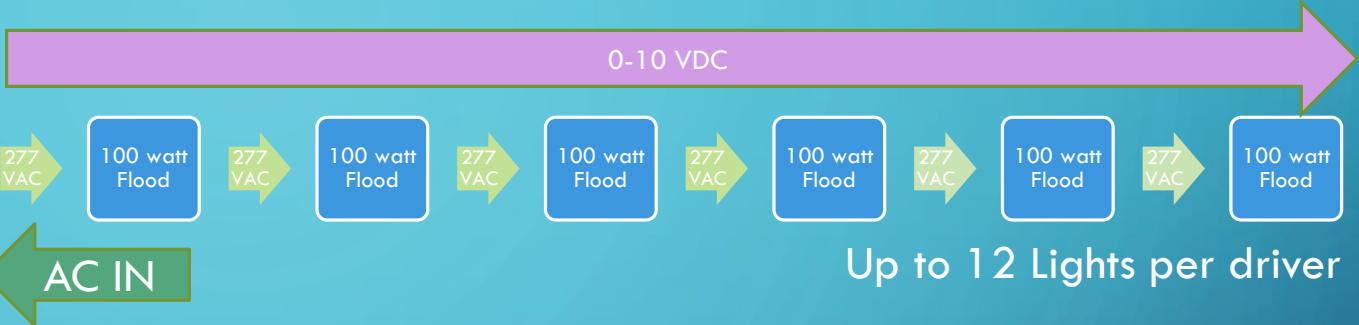
NETDIMMER – WIRELESS LED DRIVERS (0-10V CONTROL)

netDimmer
mesh
Gateway

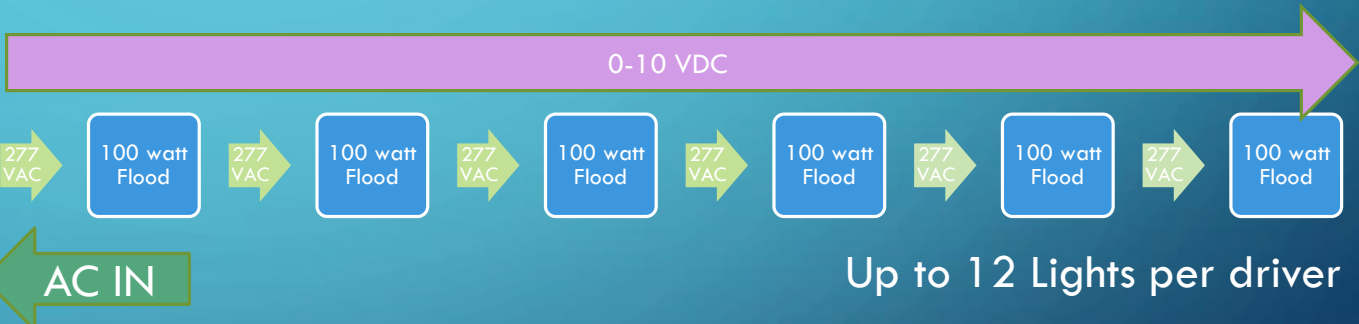
WiFi or Ethernet
Access point to
Zigbee wireless
network



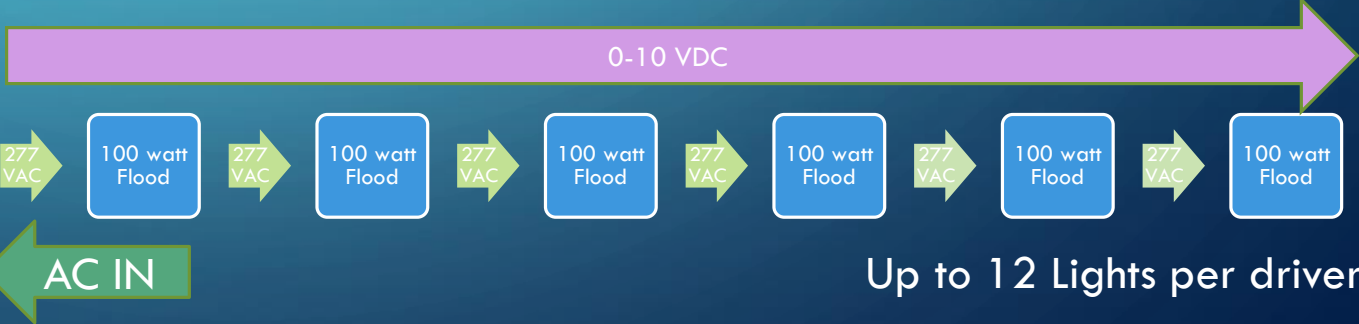
netDimmer
mesh module
0-10V control
driver 15
Amps max
(switched AC)



netDimmer
mesh module
0-10V control
driver 15
Amps max
(switched AC)



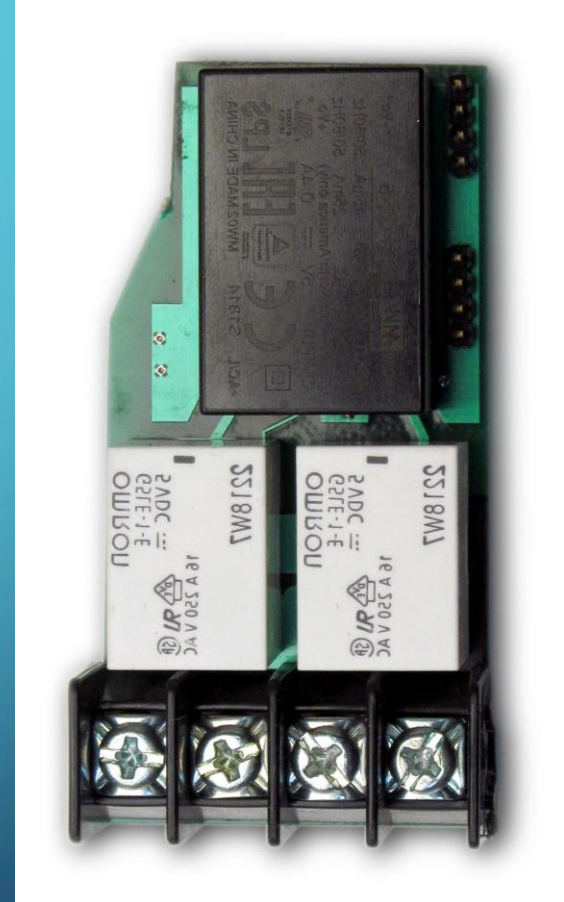
netDimmer
mesh module
0-10V control
driver 15
Amps max
(switched AC)



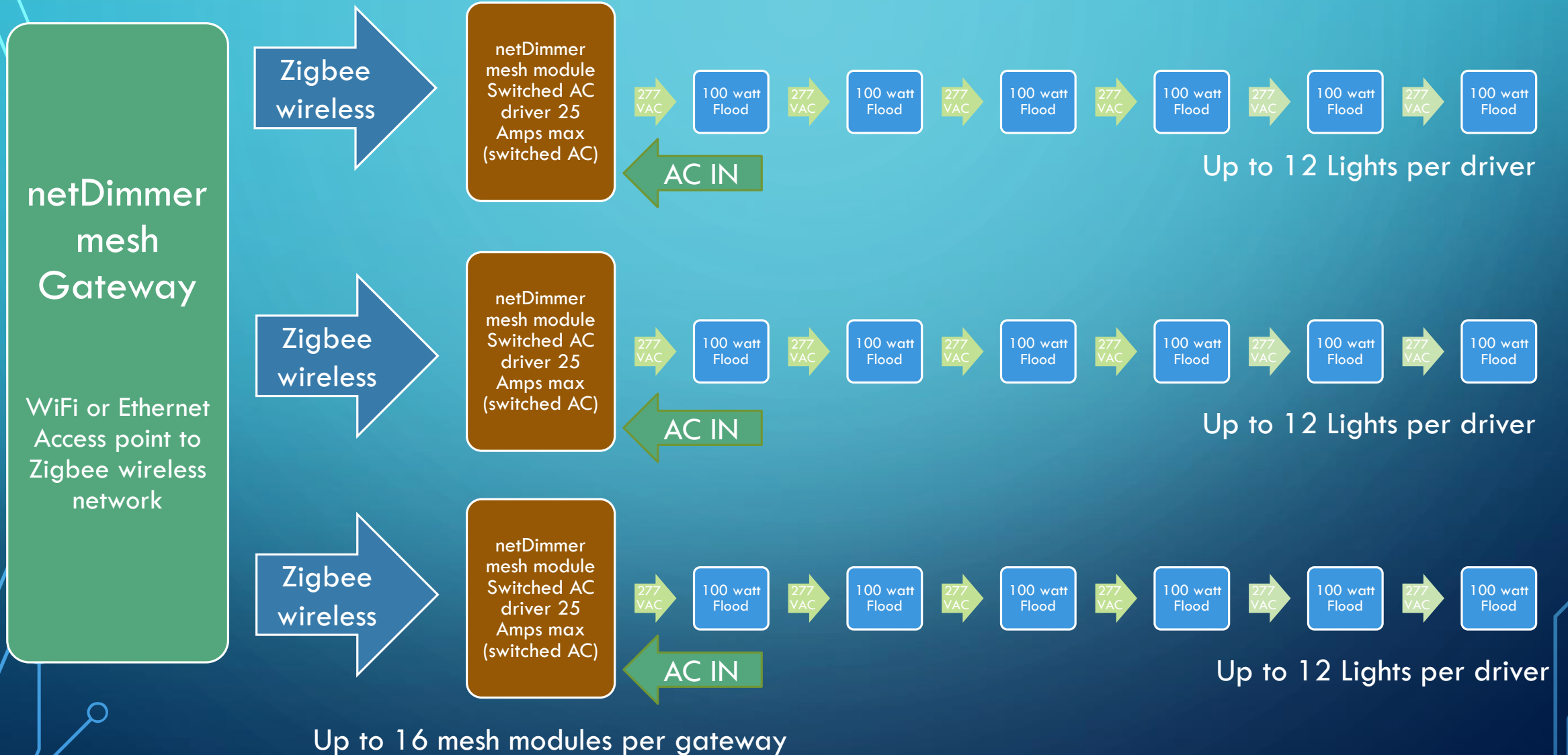
Up to 16 mesh modules per gateway

NETDIMMER NETWORKS

- Wireless AC Switched drivers
 - Span large distances (several miles)
 - Scalable deployment
 - Master/Slave (up to 16 slaves per Gateway)
 - Simple On/Off for all types of LED Lights/drivers
 - Power loss option keeps lights on in case of failure
 - Dual relay option for bank switching (0%, 50%, 100%)
 - Stand alone (isolated) operation option
 - Local monitoring and control via browser device
 - Cloud base monitoring and reporting



NETDIMMER – WIRELESS LED DRIVERS (AC SWITCHED ONLY)



NETDIMMER – WIRELESS LED DRIVERS (DUAL AC SWITCHED)

**netDimmer
mesh
Gateway**

WiFi or Ethernet
Access point to
Zigbee wireless
network



netDimmer mesh
module Dual
Switched AC
driver 10 Amps
max (switched AC)

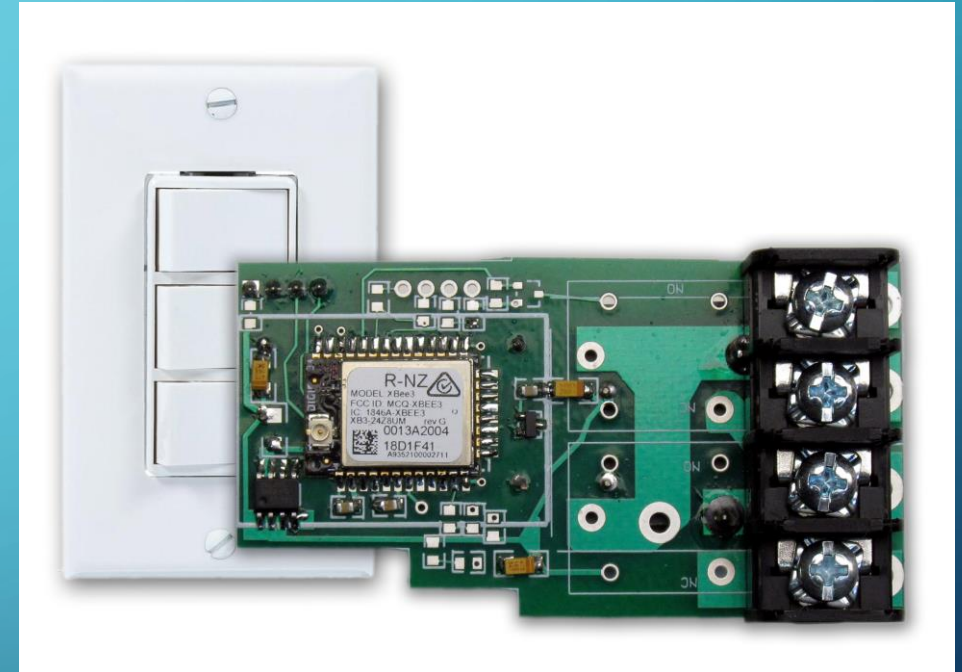


Dual Relays allow bank switching for 0%, 50%, 100%

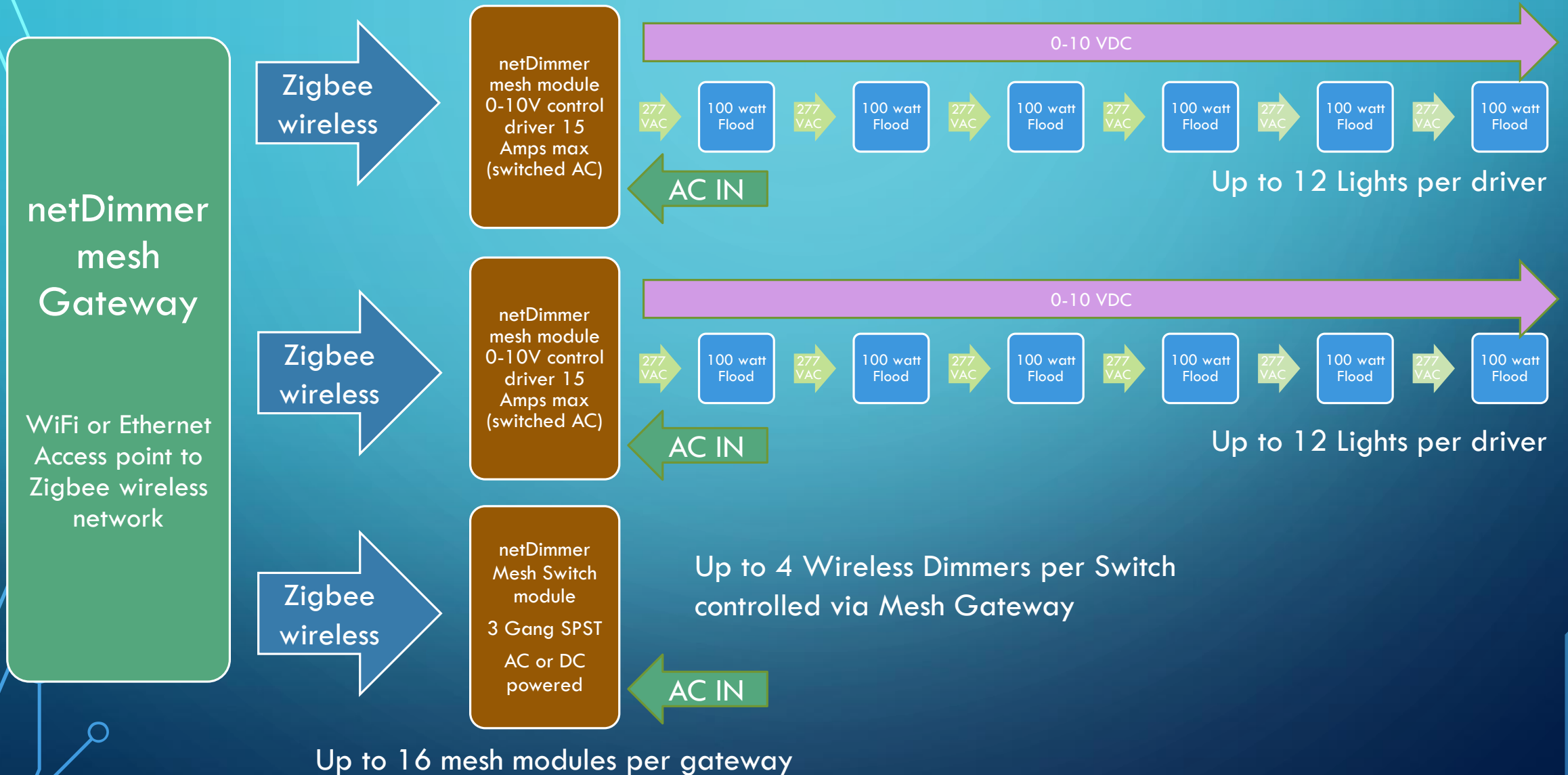
Up to 16 mesh modules per gateway

NETDIMMER NETWORKS

- Remote Switch Controller
 - Span large distances (several miles)
 - Scalable deployment
 - Master/Slave (up to 16 slaves per Switch)
 - Up to 4 dimmer presets (0%, 25%, 50%, 100%)
 - Optional local override enable mode
 - Can be configured to control wireless dimmer modules directly without gateway
 - AC Powered to 480 VAC
 - Optional DC Power Option available



NETDIMMER – WIRELESS LED DRIVERS WITH REMOTE SWITCH



NETDIMMER – WIRELESS LED DRIVERS WITH SLAVES

netDimmer
mesh
Gateway

WiFi or Ethernet
Access point to
Zigbee wireless
network

Zigbee
wireless

netDimmer
mesh module
0-10V control
driver 15
Amps max
(switched AC)



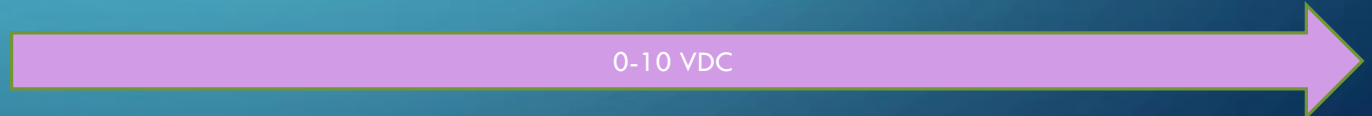
AC IN

Up to 12 Lights per driver

Zigbee
wireless

Master Switch driver can control
up to 8 slave dimmer modules

netDimmer
mesh module
0-10V control
driver 15
Amps max
(switched AC)

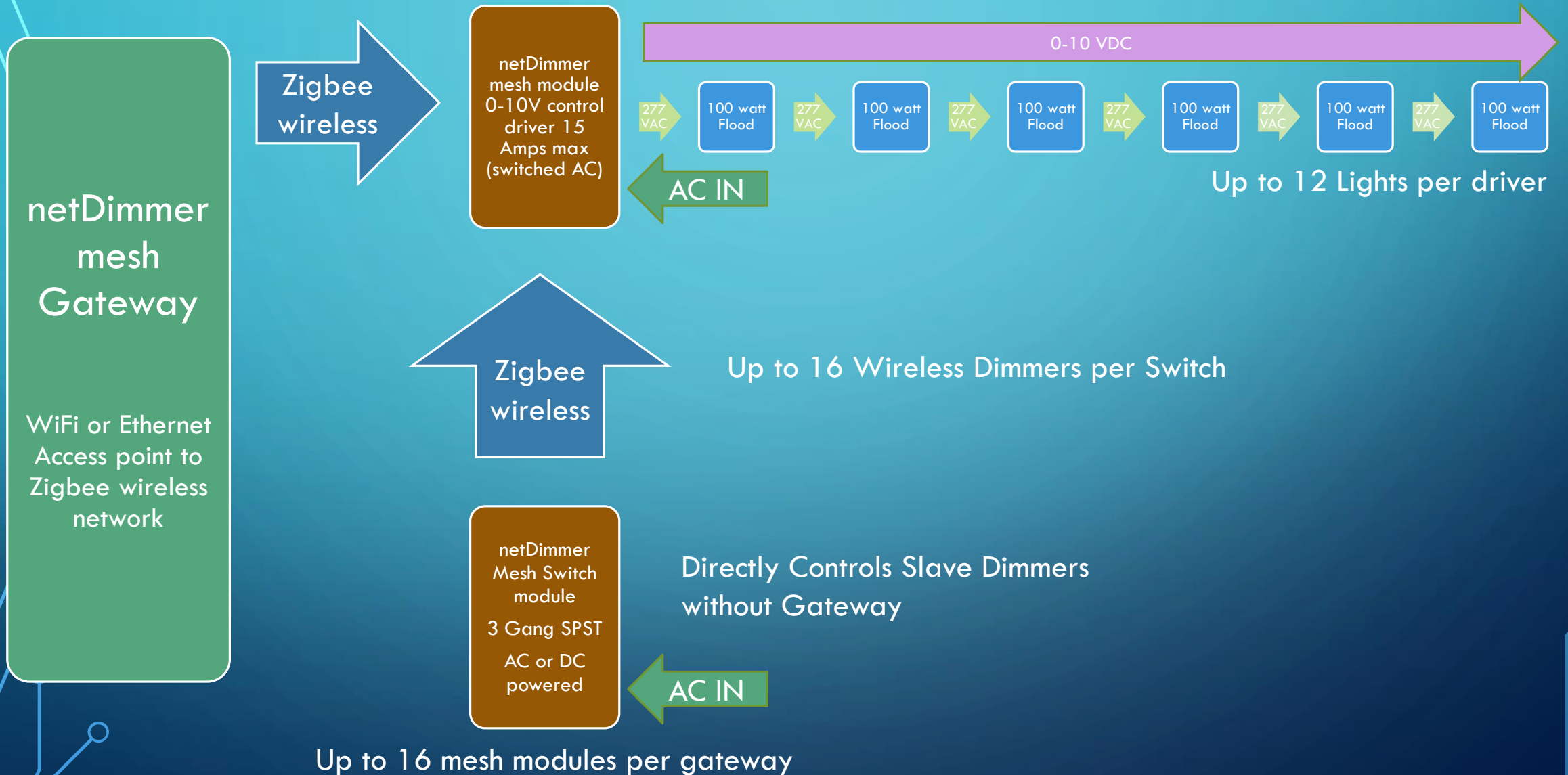


AC IN

Up to 12 Lights per driver

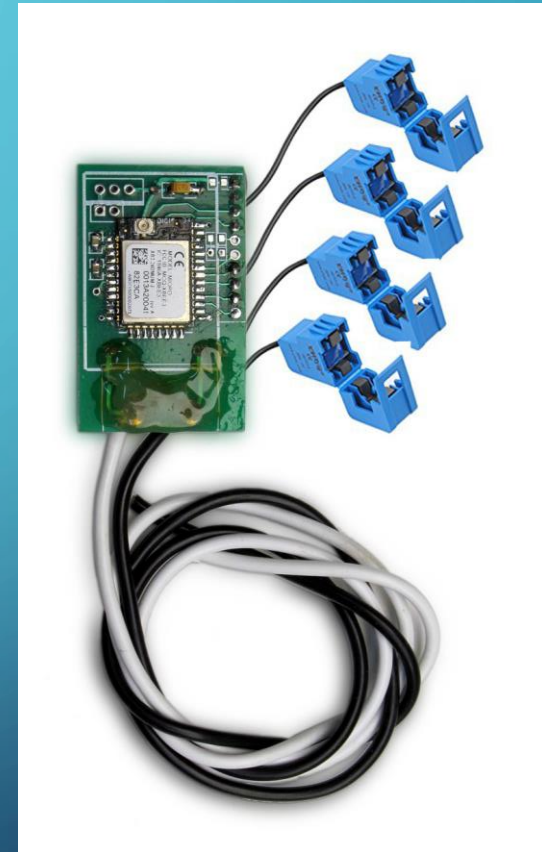
Up to 16 Master mesh modules per gateway

NETDIMMER – WIRELESS LED DRIVERS WITH REMOTE SWITCH

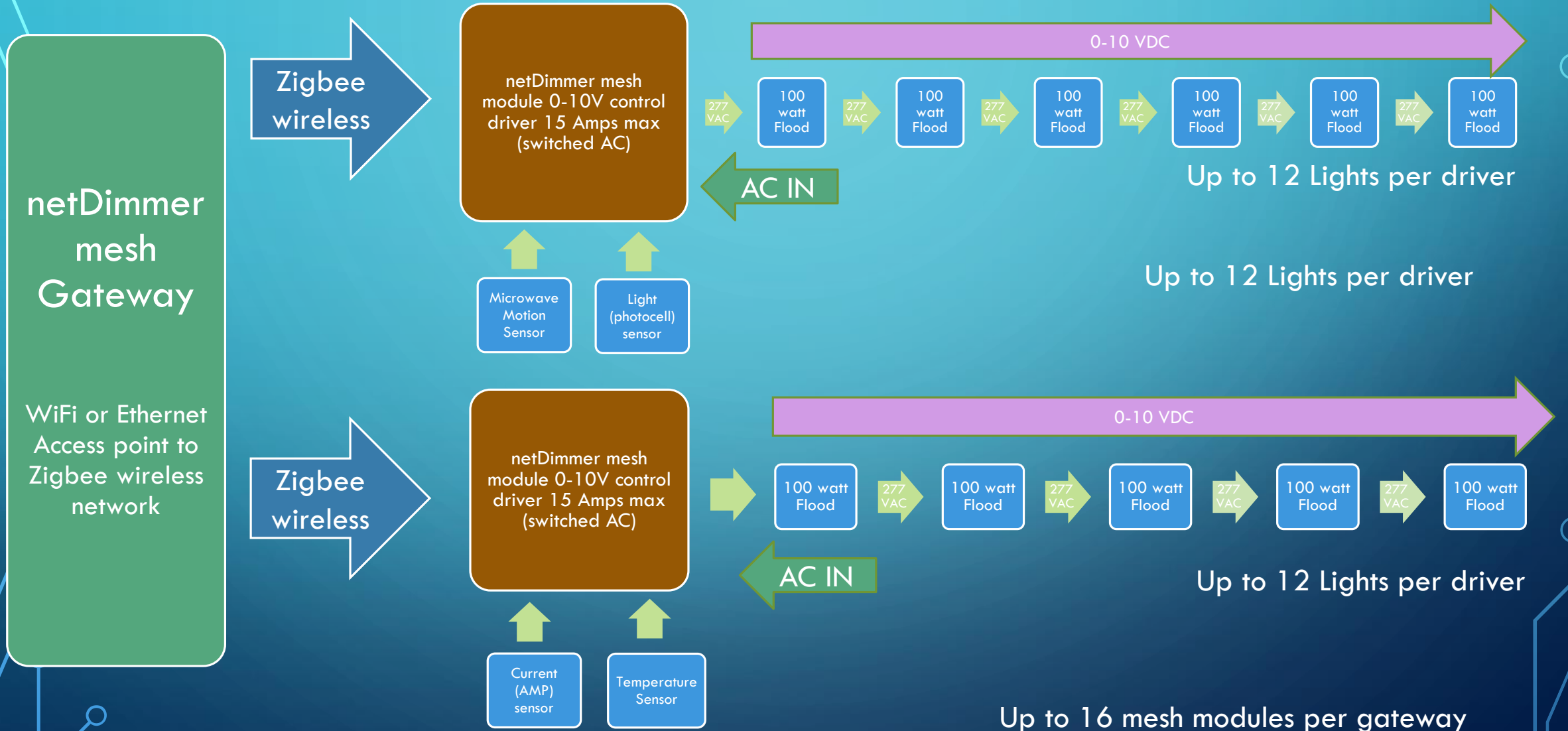


NETDIMMER NETWORKS

- MESH dimmer with sensors
 - Span large distances (several miles)
 - Scalable deployment
 - 1-4 AC Current sensors
 - Microwave Motion detector
 - Light Level sensor (Photo cell)
 - Temperature/Humidity sensor
 - Contact Open/Close detect (4 channels)
 - Local monitoring and control via browser device
 - Cloud base monitoring and reporting



NETDIMMER – WIRELESS LED DRIVERS WITH SENSORS

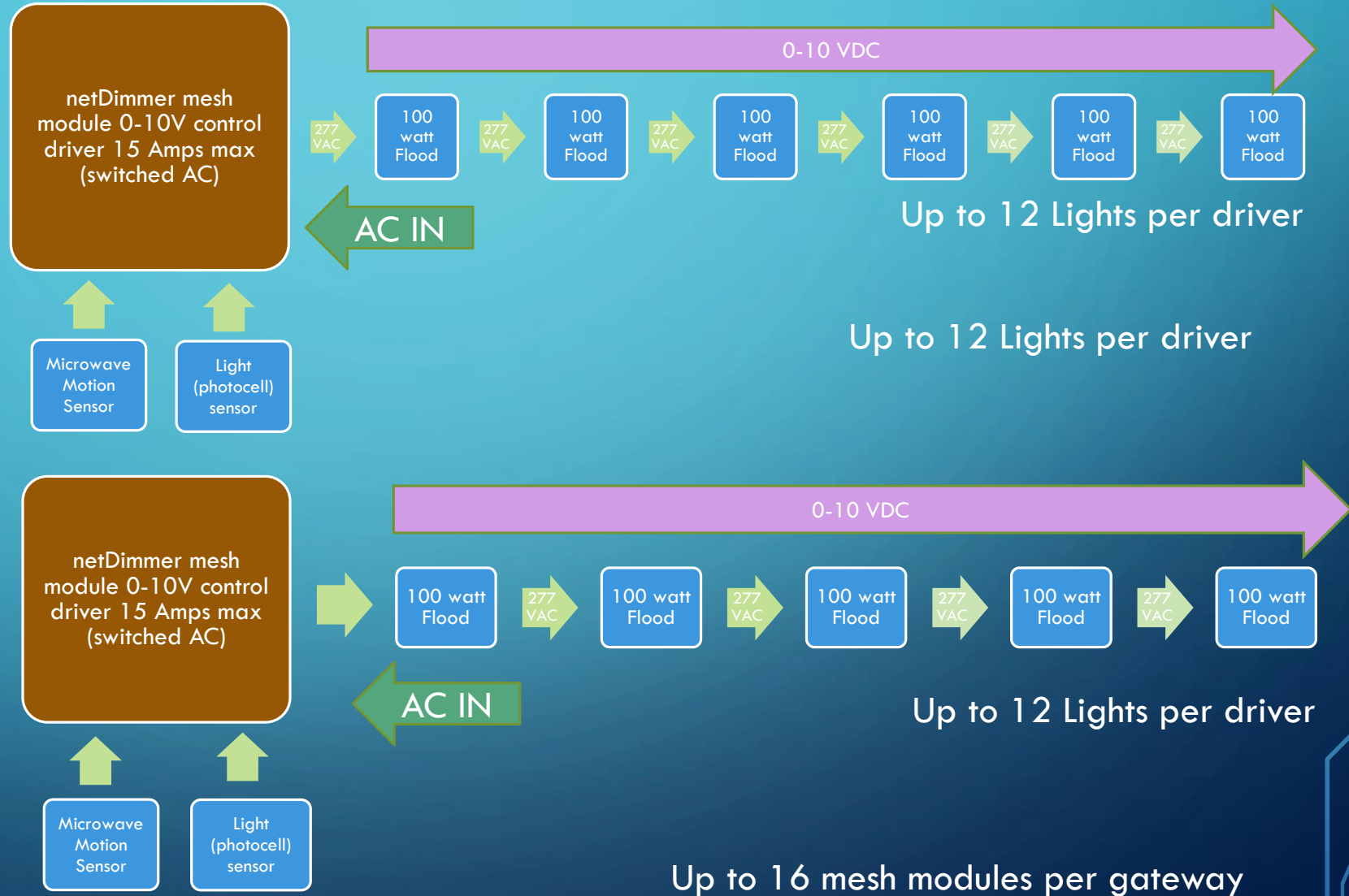


NETDIMMER NETWORKS

- Stand alone dimmer modules
 - Operate independent of gateway
 - Microwave Motion Sensor
 - Light harvesting (photocell)
 - Wireless Remote Switch controller
 - Wireless configuration and direct monitoring
 - Fault detection and alerting
 - Stand alone (isolated) operation option
 - Local monitoring and control via browser device
 - Optional USB wireless USB transceiver



NETDIMMER –STANDALONE LED DRIVERS WITH SENSORS



NETDIMMER – WIRELESS LED DRIVERS WITH REMOTE SWITCH

