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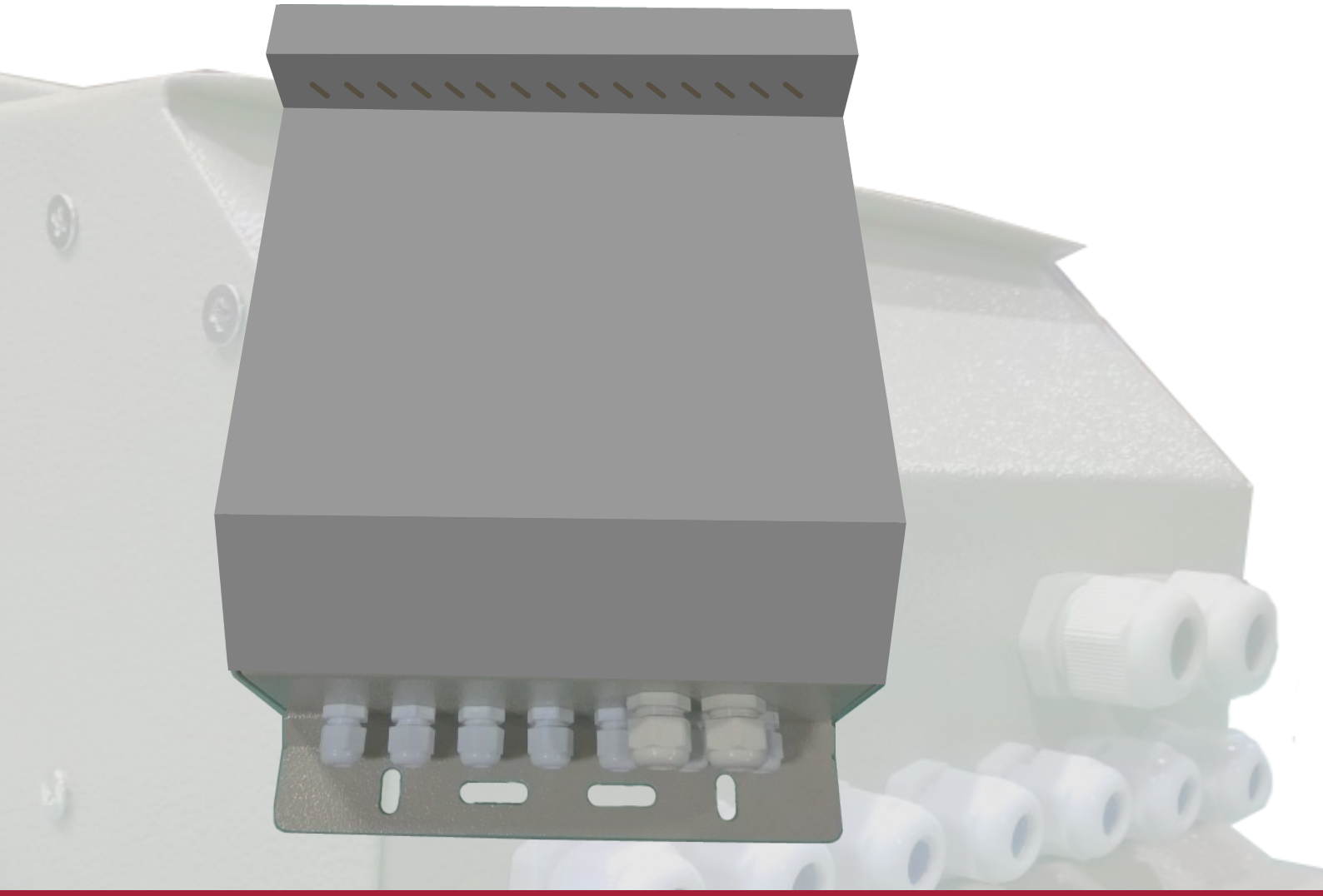
Magic Box



An Integrated Outdoor PoE Solution for Video Surveillance and Wireless Deployments

- Simplify CCTV Network
- Quick Installation
- Lower Project Cost

Applications

- In-Building Surveillance / WiFi
- Warehouse WiFi / Surveillance
- Outdoor Surveillance / Smart City
- Malls Surveillance / WiFi

Made In UAE

KEY ADVANTAGES

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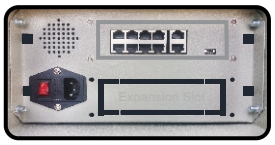
1. Compact & Integrated Solution



Compact Magic Box
270 x 240 x 140 (mm)

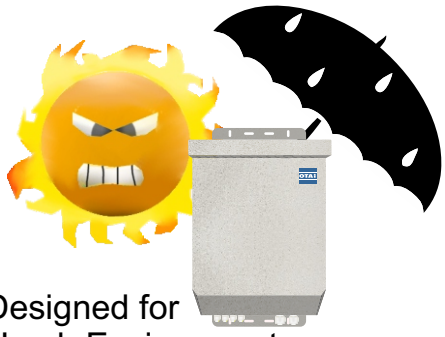
6U Rack Size
600 x 450 x 350 (mm)

Indoor Installation

Outdoor Installation

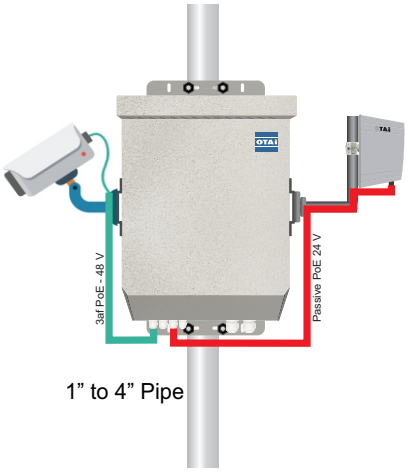
- All in one Comprehensive Product
- Plug and Play
- Easy to Install & Maintain
- Cost Effective
- Requires Wide Selection of Components Suitable for Solution
- Heavy Weight
- Difficult to Install & Maintain

100% Water Proof



Designed for
Harsh Environment
(-20° to 65°)

Pole Mountable



1" to 4" Pipe

Wall Mountable

- OTAi Magic Box save 50% cost and 70% space.

Configuration Options

Power Input Options

- 230 V AC Mains
- 12/24/48 V DC
- Solar / Wind
- Hybrid (Mains + Solar) or Solar + Wind
- PoE

Output Options

- DC + PoE OUT for Wireless / Sensors.
- Fiber Link with Choice of SFP Modules (SM + MM – Long Range).
- 10/100 PoE of Choice 12/24/48 up to 60W Per Port (2–16 Ports).
- Combination PoE Options – Mix of 12/24/48V PoE Ports on Single Frame.
- 10/100 /1000 PoE of Choice 48V Passive up to 60W Per Port,3af / 3 at (4–16 Ports).
- Network Link to Cascade Next Magic Box / Network Components/Router/Switch/Router.

Copper / Fiber Connectivity

- GIGABIT Network Up Link Port
- GIGABIT Network Extender Uplink Port to Cascade Another Magic Box
- High Power PoE Uplink
- SM Fiber Uplink + Down Link
- Multimode Fiber Up Link + Down Link
- Wireless Uplink with / without PoE of Choice

UPS Function (Power Backup)

- It is Also Very Helpful in Rural Area Where Frequent Power Cut is Observed.
- Magic Box can be Installed on Street Light which Charges Batteries from the Mains During Night Time and Allow Full Day Option on Backup Power.
- In Case of 2 – 8 Devices Power Back up of 30 Minutes to 60 Minutes is Possible from Compact Body.

Advance Networking Options & Management

- Magic Box can Offer Various Options with Advance Capabilities and Features like VLAN /VPN / Management VLAN /Bandwidth Shaping /SNMP /SSH /DMZ/ 8 SSID with LAN UNBRIDGING /8 DHCP Servers).

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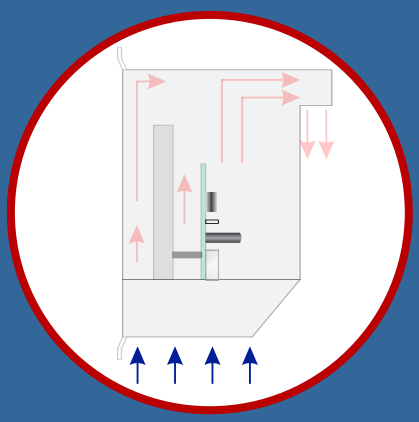
Factory Default Configurations & Dealer Prices

Model Name	Omagic 4011	Omagic 4G01SF	Omagic 8011G	Omagic 8G11SF	Omagic 1611G	Omagic 1611SF
Uplink -1	10/100	SFP Gigabit	10/100/1000	SFP Gigabit	10/100/1000	SFP Gigabit
Uplink -2	10/100	10/100/1000	10/100/1000	SFP Gigabit	10/100/1000	SFP Gigabit
PoE Ports	4 (10/100)	4 x Gigabit	8 (10/100)	8 x Gigabit	16 (10/100)	16 x Gigabit
PoE Distance	Upto 250 Mtr	Upto 100 Mtr	Upto 250 Mtr	Upto 100 Mtr	Upto 250 Mtr	Upto 100 Mtr
PoE Voltage	12/24/48 V	48 V	12/24/48 V	48 V	12/24/48 V	48 V
Max PoE Power Per Port	60 W	30 W	60 W	30 W	60 W	30 W
PoE Type	Passive	3af / 3at	Passive	3af / 3at	Passive	3af / 3at
Total PoE Power Budget for Magic Box	150/350 W	150 W	350 W	350 W	350 W	350 W
Input Power	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC
Power Backup	Optional	Optional	Optional	Optional	Optional	Optional
Solar Backup	Optional	Optional	Optional	Optional	Optional	Optional
Redundancy of Fiber	Optional	Optional	Optional	Optional	Optional	Optional
SFP Port Support	N/A	1 x Gigabit SFP Ports	N/A	2 x Gigabit SFP Ports	N/A	2 x Gigabit SFP Ports

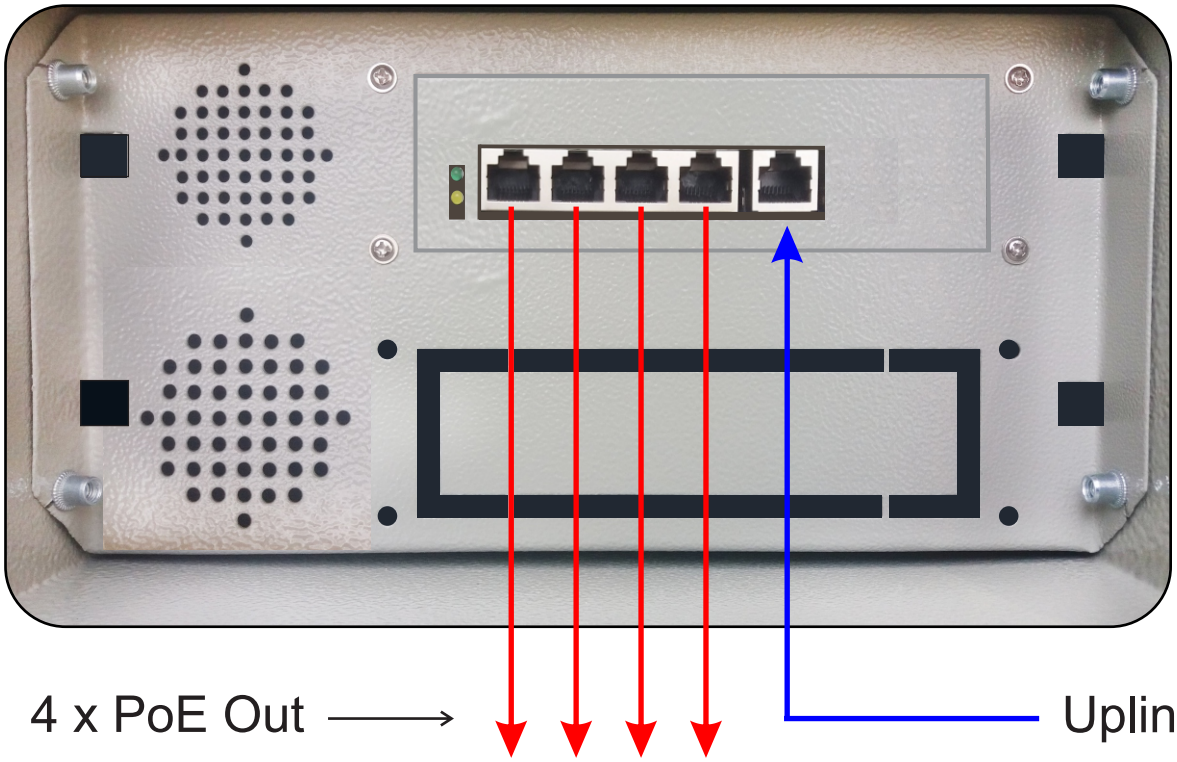


Passive Cooling Mechanism

Ensure Stability and Long Product Life
In Harsh Environment

Special Versions
Compact Magic Box

(A): Magic Box + PoE Extender



Input Voltage = PoE Out Voltage
For Example:

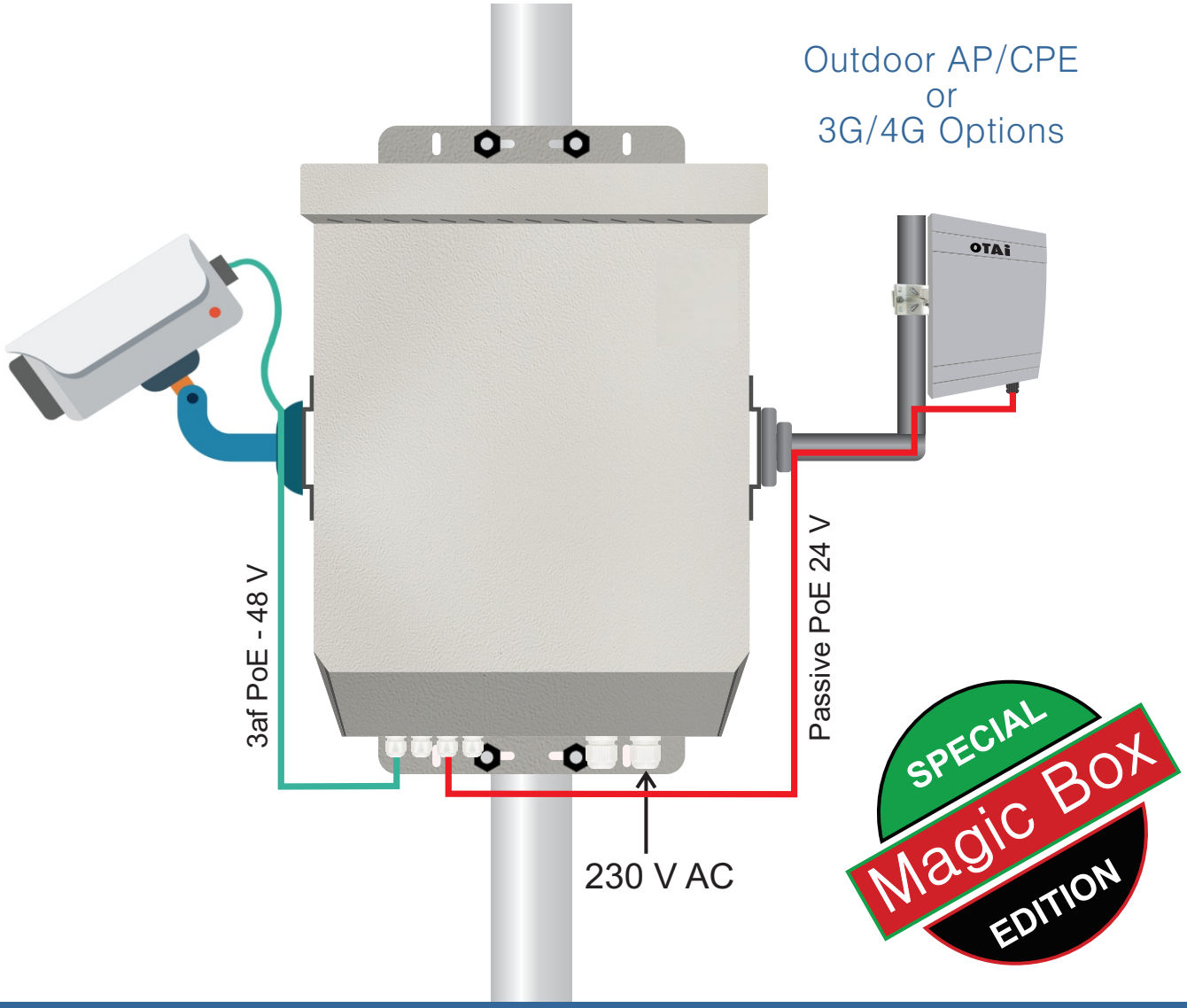
- 12 V PoE In = 12 V PoE Out x 4
- 48 V PoE In = 48 V PoE Out x 4

SPECIAL Magic Box EDITION

Advantages

- No Need of Power
- Uplink Port = PoE
- Out Ports = 4 x PoE
- Power Option = 12 V – 51 V
- Max Power Budget = 120 W
- Extend PoE Range Upto 400 Meter

(B): Magic Box Special Version



On Board Wireless Communication Options

- **Integrated 3G / 4G Gateway**

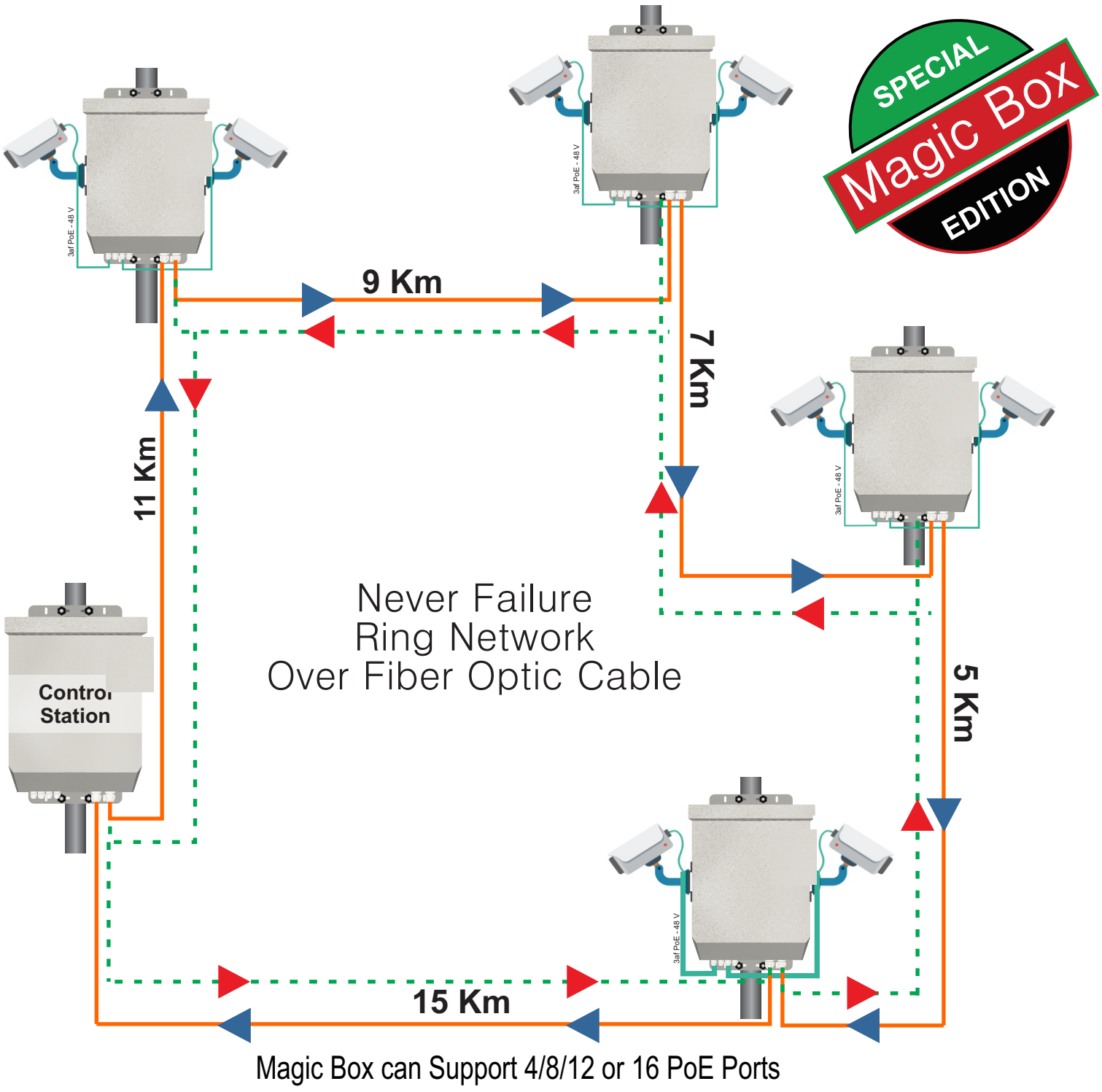
  or

- **Integrated Carrier Grade Wireless AP / CPE(Broad Band Router)**

Wireless Capabilities Allow Fully Secured (256 Bit Encryption) Real-Time Video Transmission up to 30 Cameras Including PTZ Camera Over a Distance up to 30 KM with Lowest Latency.

Wireless Frequency Options Include ISM Bands (2.4 GHz & 5GHz) and 4.9-6.1GHz, 3.3-3.8 GHz, 5.9 to 6.4 GHz, Supports Latest MIMO-N & AC Technologies with Aggregated Throughput up to 900Mbps.

(C): Magic Box with Optical Redundancy



Magic Box can Support 4/8/12 or 16 PoE Ports

Redundant Network

Critical Operation like Defence, City Surveillance, Customs, Airports where 100% Uptime of the Network is a Challenge.

Compact Magic Box can Play Very Vital Role in such Applications and Ensure Fully Managed Redundant Network.

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