WoMaster

Product Introduction

DP612

Industrial 12G L3 Managed PoE Switch

DS612

Industrial 12G L3 Managed Ethernet Switch

Markets

Full Giga L3 PoE switch for Easy & High-speed Routing on your field network

DP612, DS612 Benefits

Full Giga Layer 3 PoE Switching & Routing performance

One model support both PoE and Non-PoE applications

Broadcom main chip with 8GE (PoE) + 4G SFP (100/1000M) Fiber

- Longevity/1.5MB for burst traffic/16K MAC address
- Expansive but efficient network performance

Layer 3 Hardware-based wire-speed routing

- Dynamic: RIP v1/2, OSPF v1/2, Static/VLAN /multicast routing, VRRP redundancy

Cyber Security (Video on YouTube by WoMaster)

- IEC 62443-4-2 Level 2/3/4

Layer 2 Full Management

- ITU-T G.8032 v1/v2 standard ERPS Ring
- VLAN, QinQ, QoS, IGMP snooping, port mirror, LLDP, Poe mgmt and many

Outstanding Hardware/Mechanical design

- EN 50121-4 Criteria A EMC/ NEMA-TS2 design and wide temp. -40~75℃
- Zero-packet loss for 240W@75°C (8-port af/at, DP612)

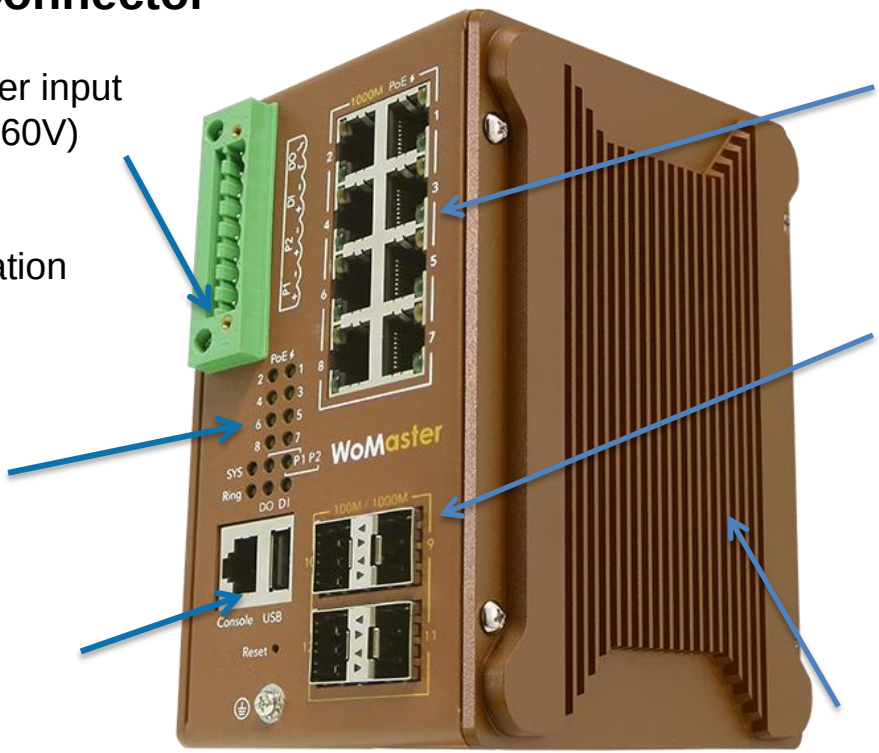
DP612 / DS612 Interfaces

Integrated Power Connector

- 1 x 8-pin terminal block
  4 pin for redundant power input
  (50~57V for PoE or 10~60V)
  2 pin DI
  2 pin DO
- Front panel easy installation

System LED

- 2 x Power
- 1 x System Status
- 1 x DI
- 1 x DO
- 1 x Ring Status
- 8 x PoE (DP612)



Gigabit Ethernet

- 8-port 100/1000M RJ45
- IEEE 802.3 af/at (DP612)

SFP Fiber Port

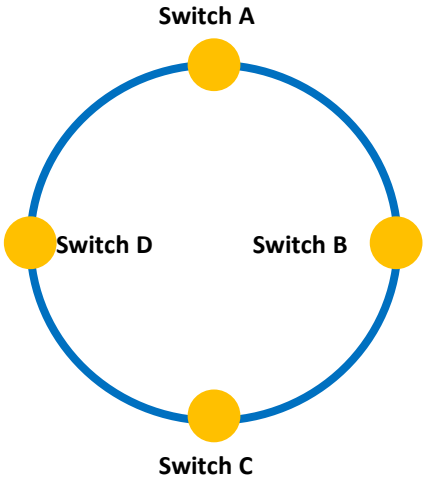
- 4 x 100/1000M SFP
- DDM diagnostic

X-type Fin design

- Good heat dispassion
- industrial looking

Redundant Ring

- Ring topology
  - Link backup/ network reliability by Redundant link
  - Broadcast storm/ MAC table unstable
- STP (RSTP/MSTP)
  - Restoration in seconds
- Proprietary ring protocols for efficiency
  - MOXA turbo ring/Huawei RRPP/ Korenix MSR/ Oring O-Ring for <50ms (carrier grade)
  - Hard for complicated network integration



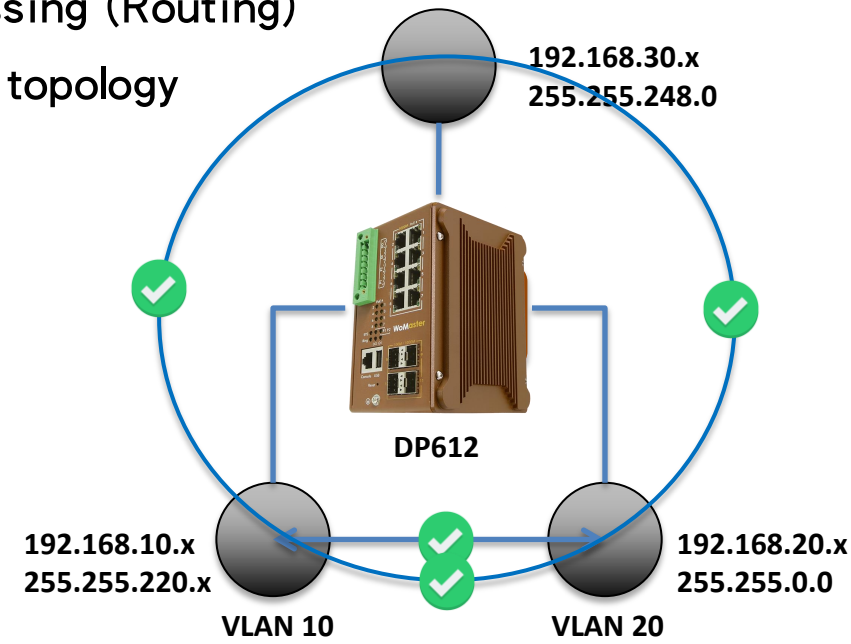
ITU-T G.8032 ERPS

- ITU (International Telecommunication Union, 國際電訊聯盟)
  - Recommendation name: series.id (ex: H.264)
- Features & Benefits
  - ITU-T G.8032, Ethernet Ring Protection Switching, a standard ring protocol for interoperability
  - Supported by Cisco, Huawei, Juniper, D-link, etc
  - Version I for single ring; Version II for multi-ring instance
  - Carrier grade restoration time: <50ms
    - No computing time when topology changed (user specified blocking ports)
    - No flush required in some cases
      - Ex: RPL/blocking ports failure
    - No BPDU forwarding
  - Maintenance mode (force switch)
  - Revertive/non-revertive

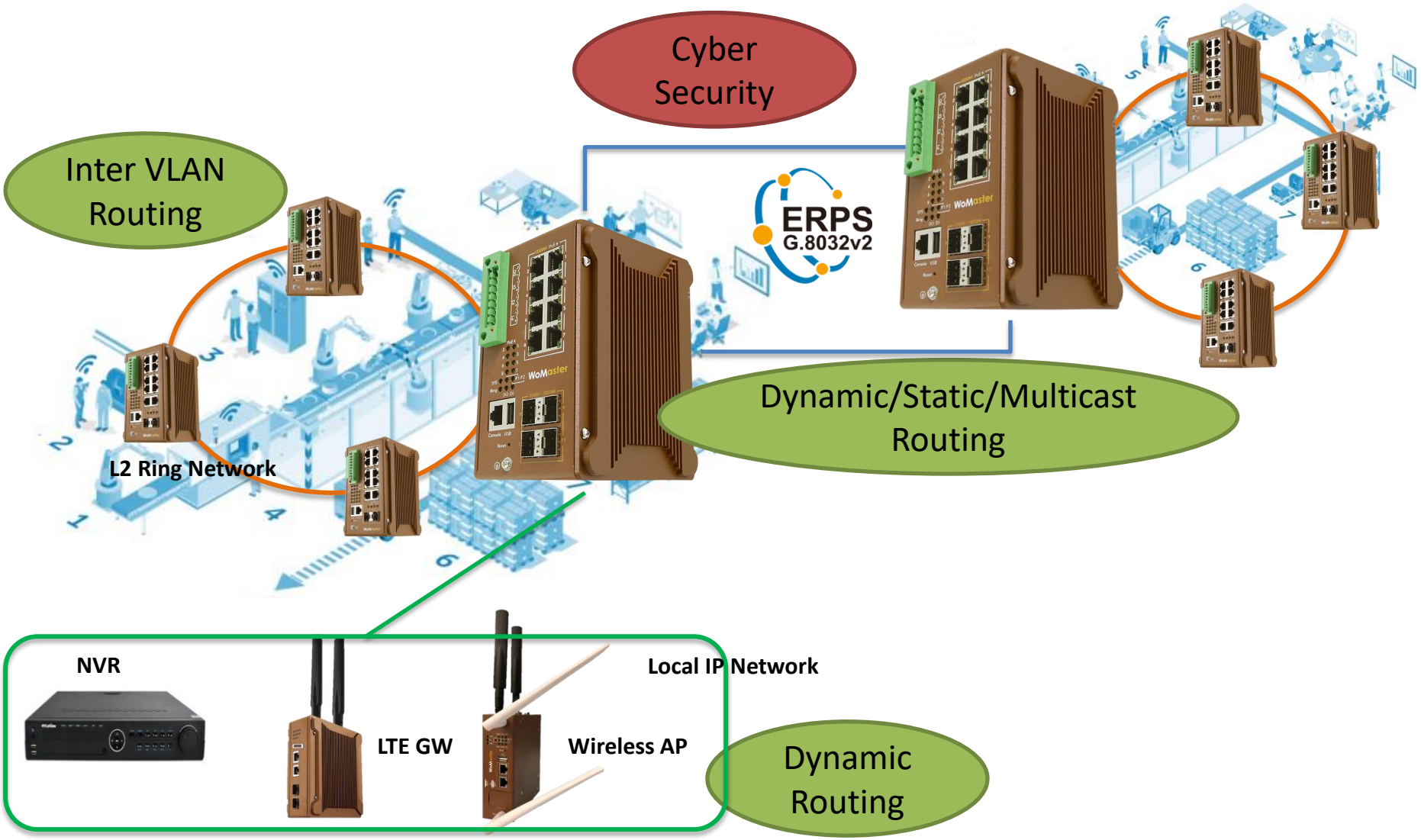
(Video on YouTube by WoMaster)

Layer 3 Switching

- **Hardware switching** at wire speed (Performance)
  - Switching ASICs V.S. CPU processing (Routing)
- L3 switching for complicated network topology
  - Inter VLAN routing
  - Dynamic routing
    - OSPF v1/2, RIP v1/2
  - Static routing
  - Broadcast traffic control
- Cyber Security protection
  - IEC 62443-4-2
  - DAI/IPSG/DoS/DHCP snooping/802.1X MAB/ Multi-level authentication/TACACS+/SFTP etc



Easy & Efficient Routing Network



Trackside Routing Network

Control Center

Internet

Static Routing

Dynamic Routing

Cyber Security

Real Time Train Status

Wayside Control Signal

Wayside Surveillance

Trackside

Cyber Security

VLAN Routing

Broadcast Control

MP310 (L2)

MP614 (L3)

Cam

Speaker

Lte