Network Redundancy

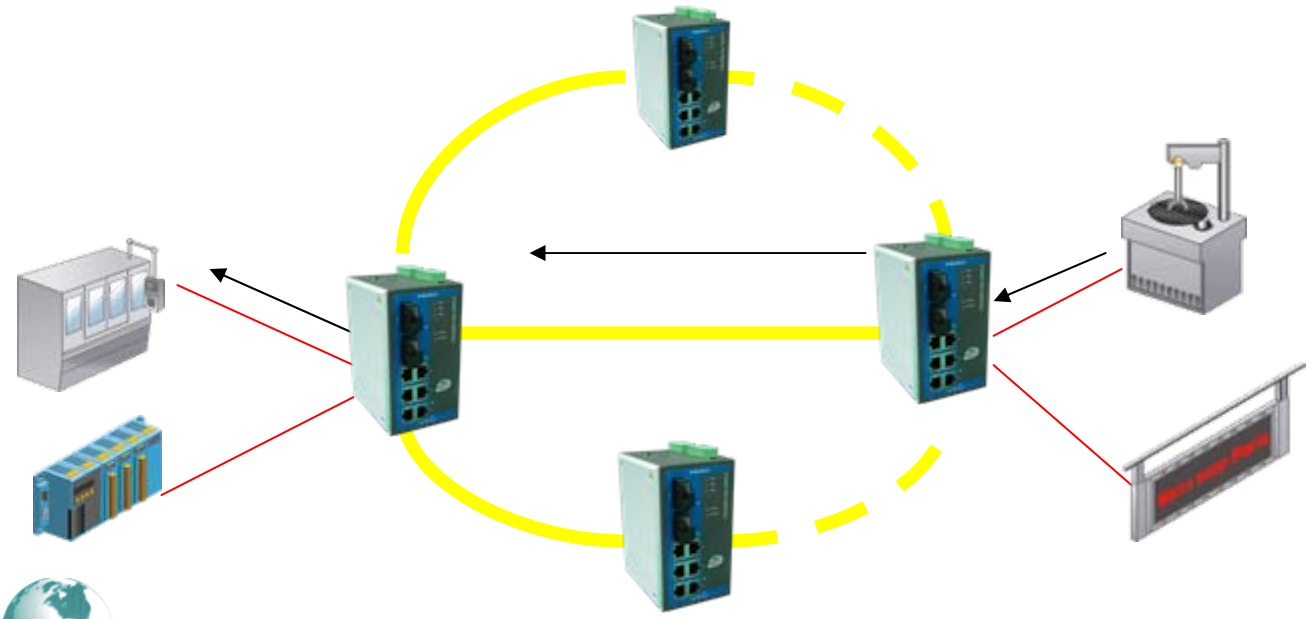
STP/RSTP/Turbo Ring

Topics covered in this paper:

- What Is Network Redundancy?
- What Benefits Does Turbo Ring Provide?
- Application Story

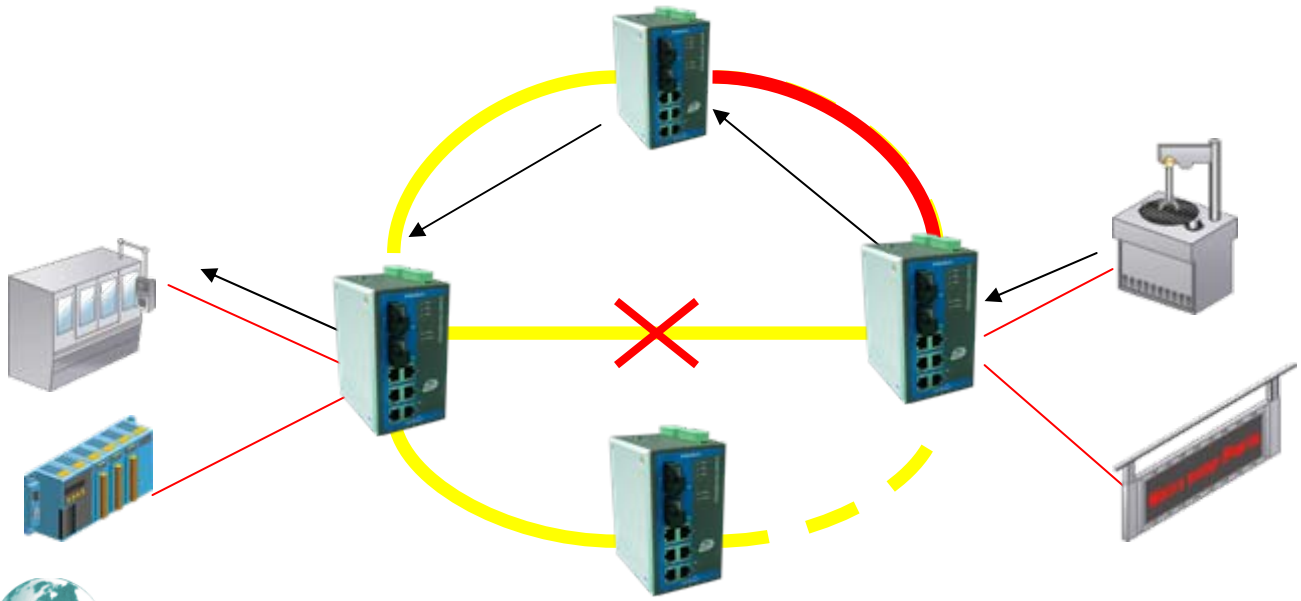
Spanning Tree Protocol (802.1D)

- An Ethernet standard that can solve network loops to provide redundant backup paths.
- Flexible Topology, recovery time > 30 sec.



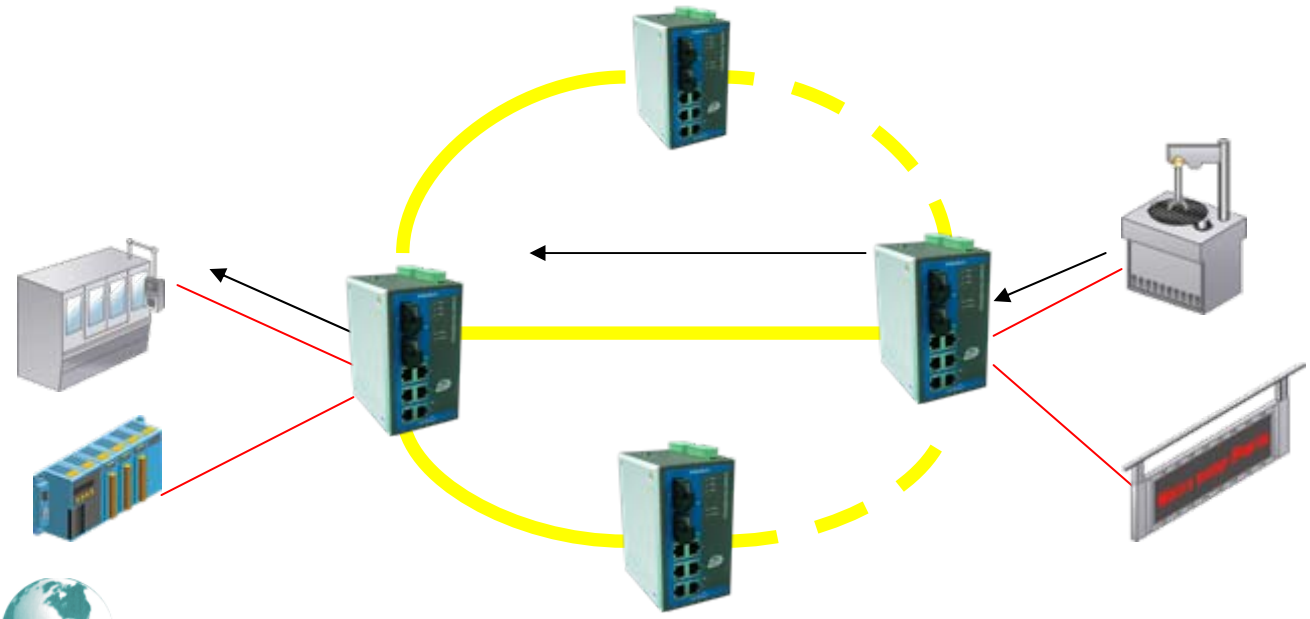
Spanning Tree Protocol (802.1D)

- If the primary path gets disconnected, a backup path is established.



Rapid Spanning Tree Protocol (802.1w)

- An Ethernet standard that can solve network loops to provide redundant backup paths.
- Flexible Topology, recovery time > 5 sec.



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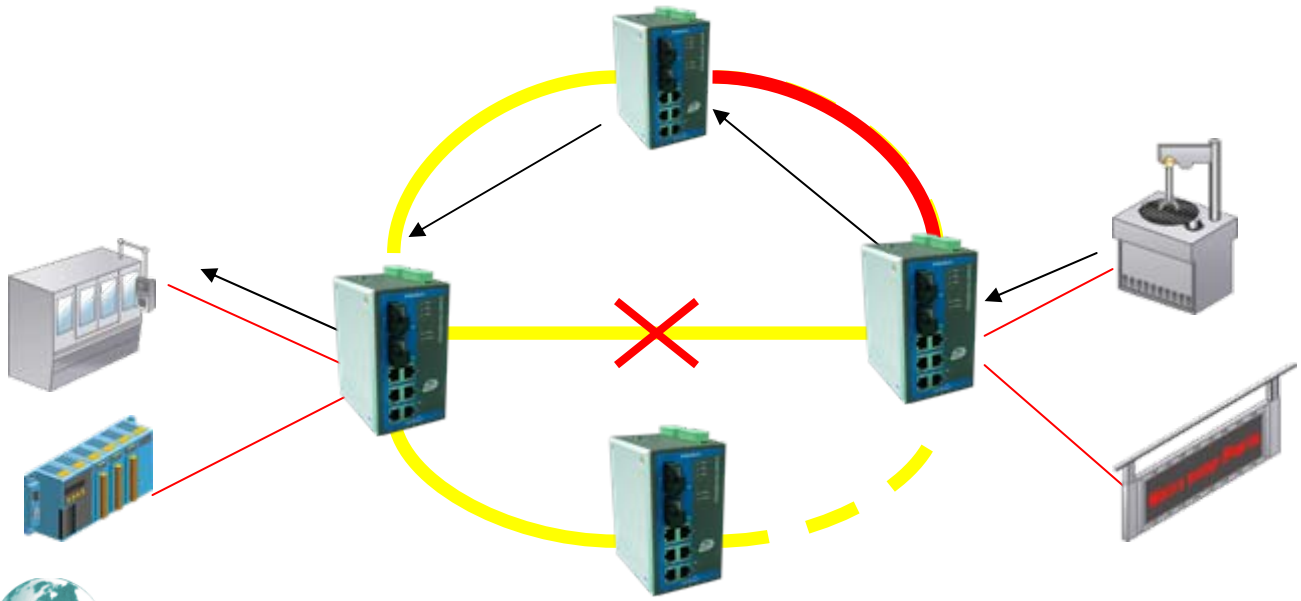
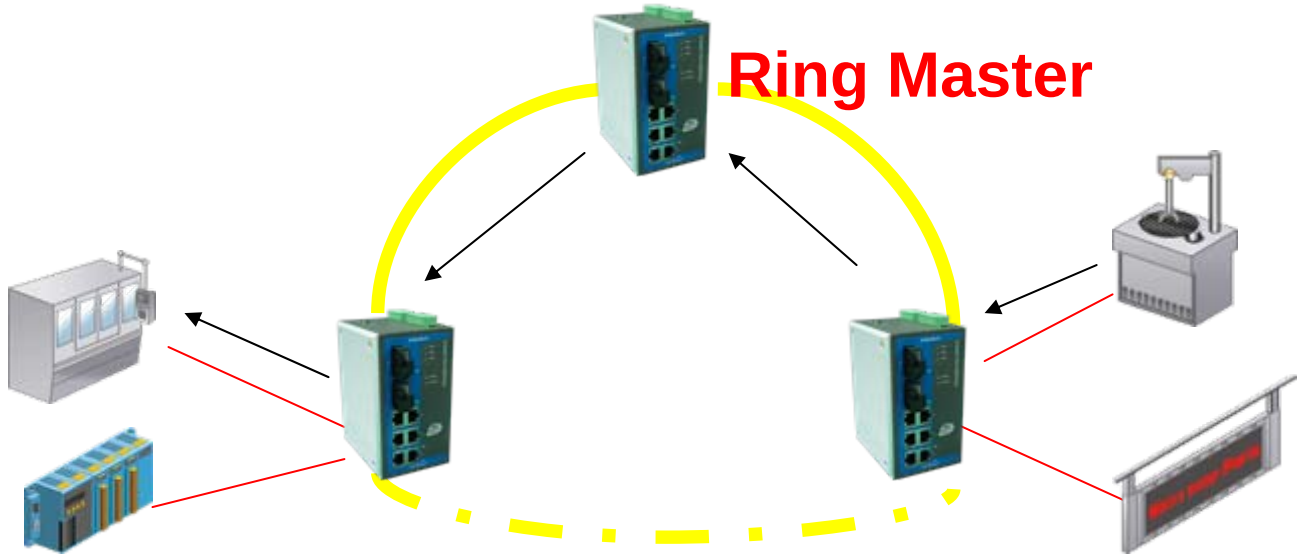


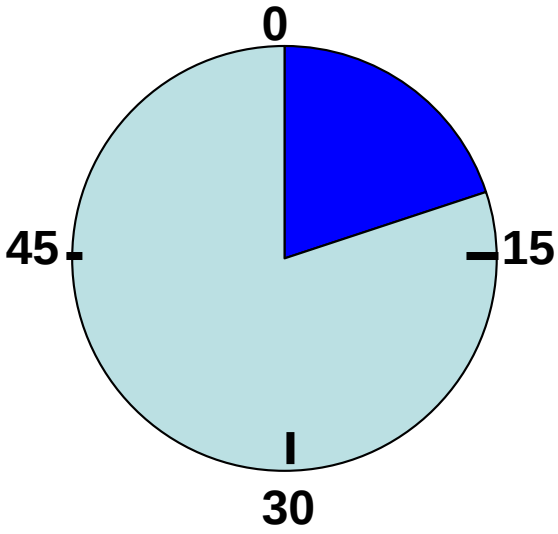
Turbo Ring

- Recovery time < 300 ms, to help control applications run without risk of media single-point-failure.
- Simple layout (ring topology), and one step set-up for very easy installation.



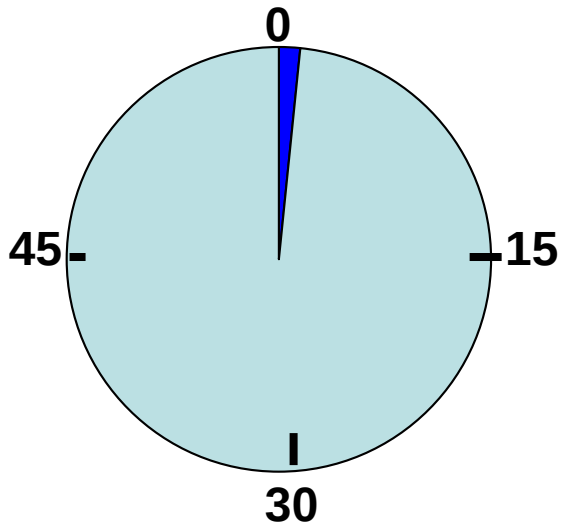
IEEE Standard Cannot Meet Mission Critical & High Speed Data Acquisition Applications

Spanning Tree Algorithms (802.1D / 802.1W)



Network Recovery > 5 sec.

Fast Redundant Ring (Moxa Turbo Ring)



Network Recovery < 0.3 sec.

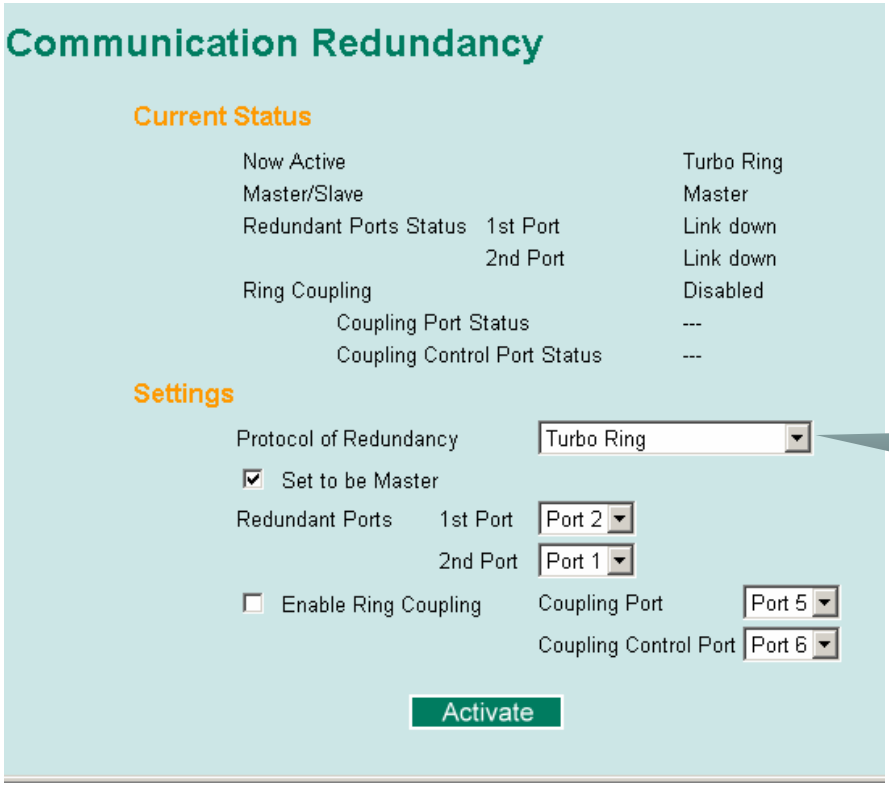
Moxa Redundant Solutions

EDS-508 Series
Intelligent & Redundant

EDS-405 Series
Unmanaged & Redundant

ED6008 Series
Managed & Redundant

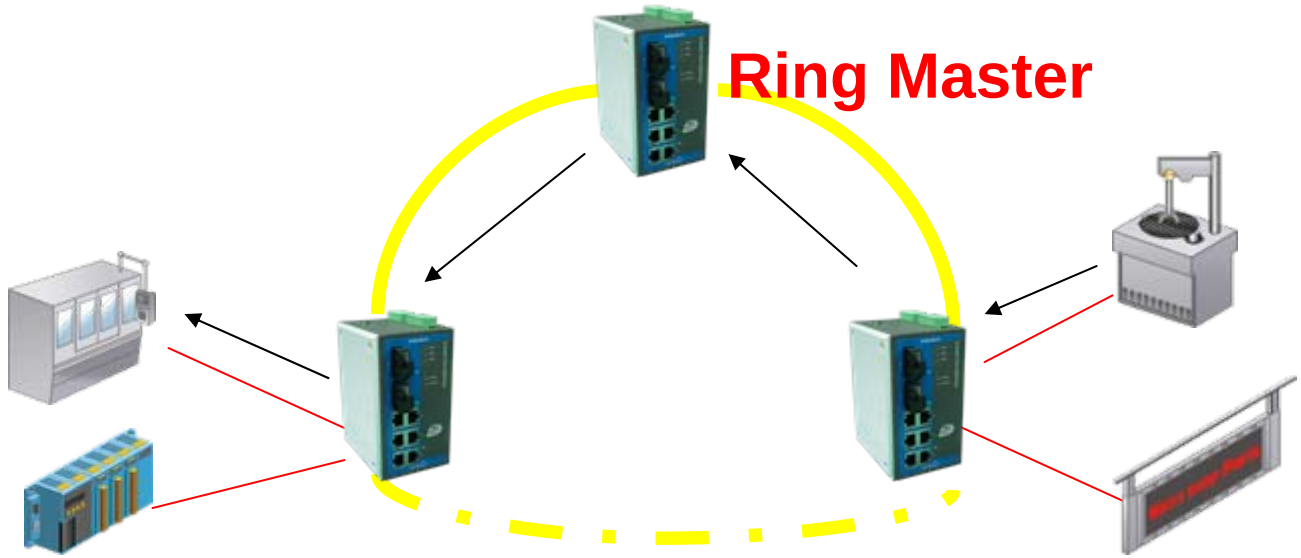
One-step Set-up for Turbo Ring



Use the selection box to select Turbo Ring

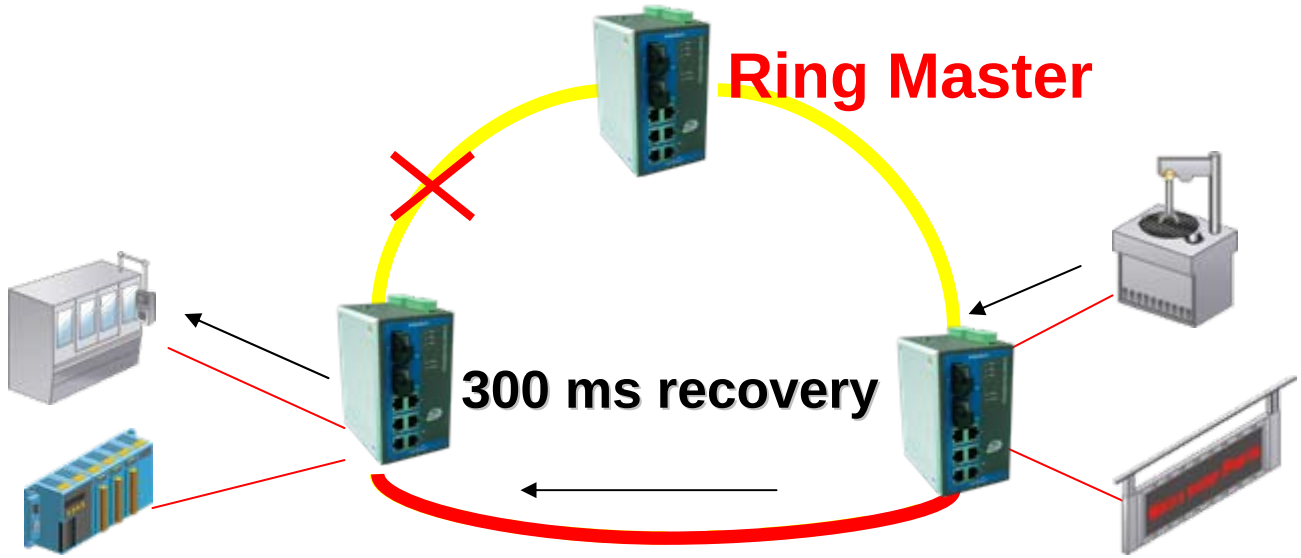
Turbo Ring Reduces Downtime

- Recovery time < 300 ms to help control applications run without risk of media single-point-failure

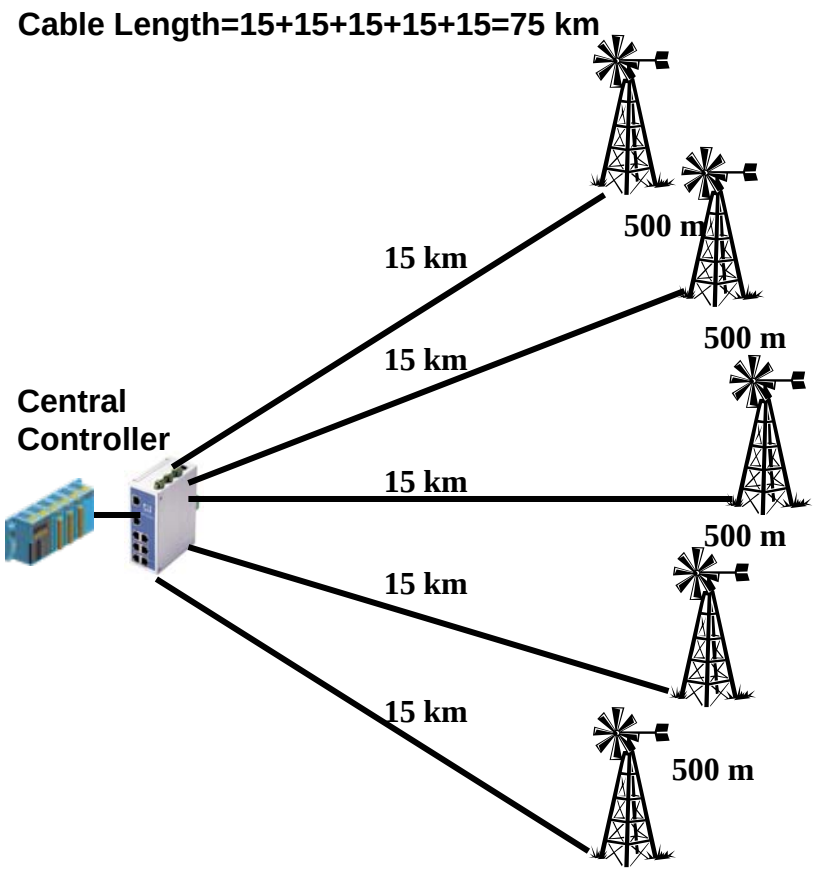


Turbo Ring Reduces Downtime

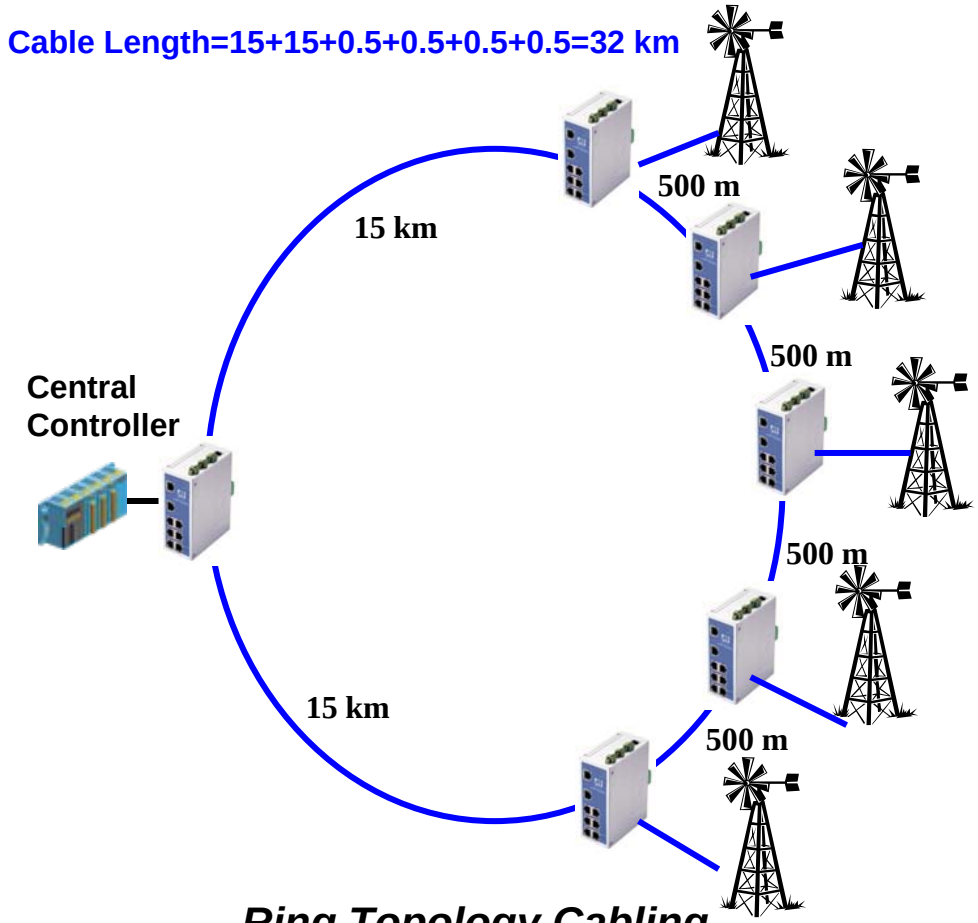
- Time is money!



Turbo Ring Reduces Long Distance Cabling Cost



Star Topology Cabling



Ring Topology Cabling