#### **MEN Mikro Elektronik GmbH**

Rugged Computer Boards and Systems for Harsh, Mobile and Mission-Critical Environments.



















As a member of the UN Global Compact Initiative, MEN is committed to follow the principles of human rights, labor, environment and anti-corruption as defined by this organization.



# Safe Communication for Inflight Systems

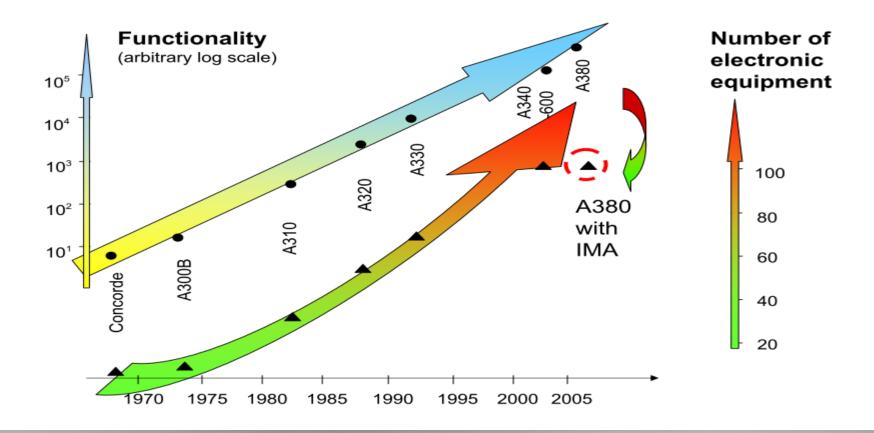




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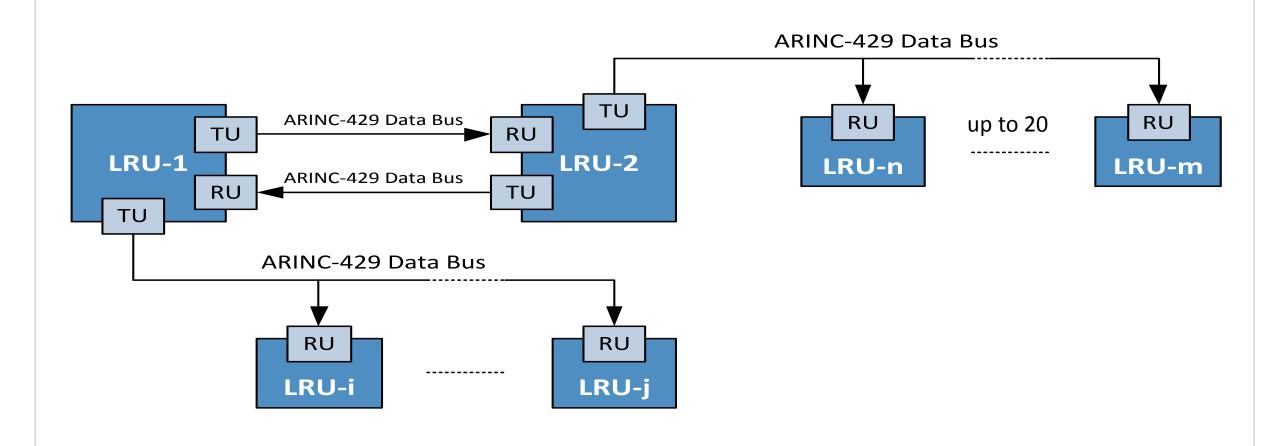
#### "Moore's Law" for Aviation Systems



#### **Legacy Architecture is at it's Limit**

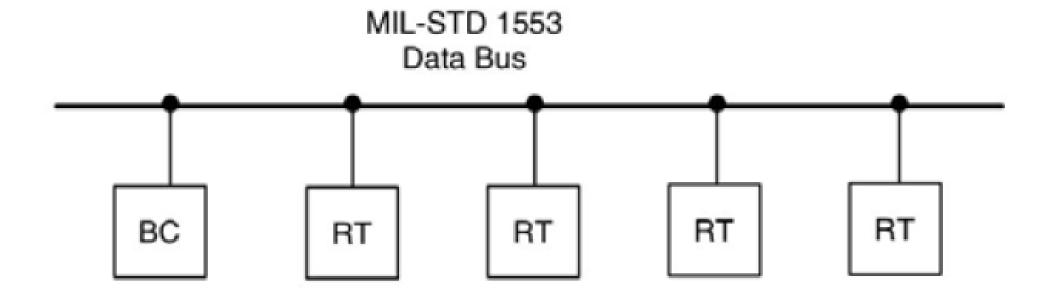


#### Where We Come From: ARINC-429 (Aircrafts of the 80s)





## **MIL-STD-1553**





#### **Performance**

Next-Gen

MIL-STD-1553

1000x

ARINC-429

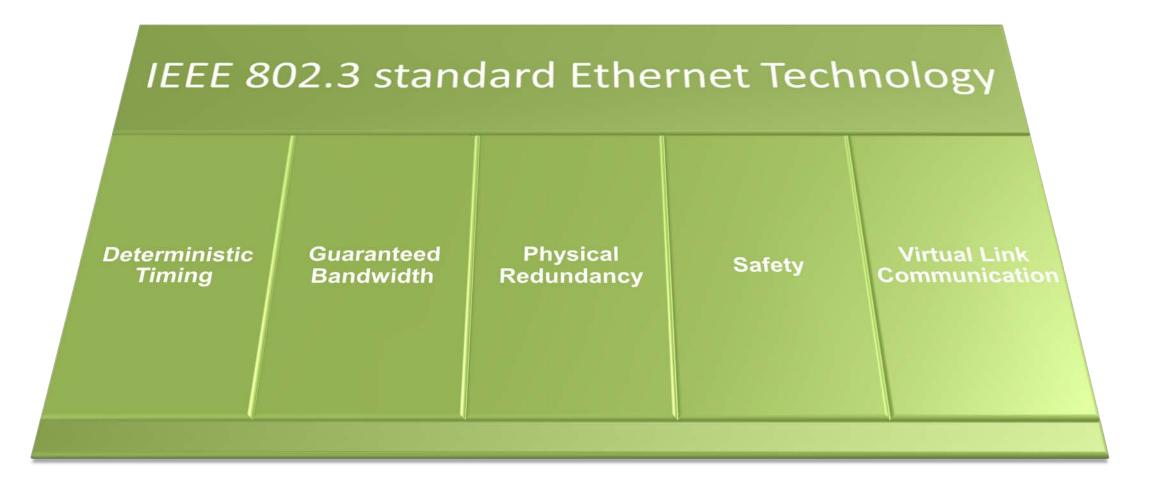


# What do You Expect from a Next-Gen Interface



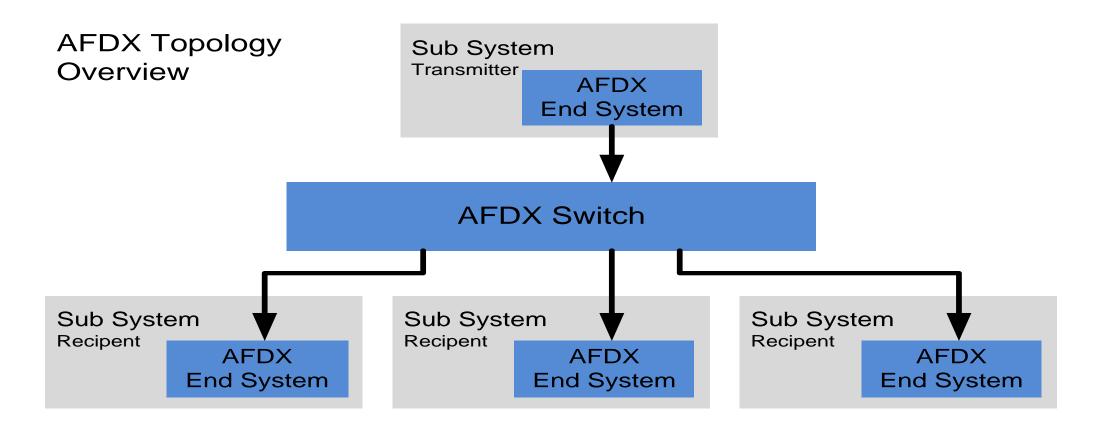


#### Next-Gen





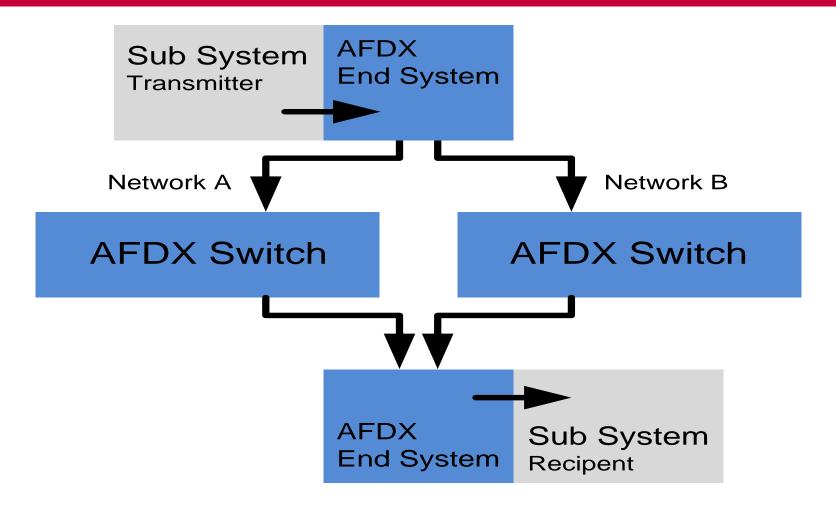
## Avionic Full Duplex Switched Ethernet (AFDX)



#### Standardized as ARINC664 Part7

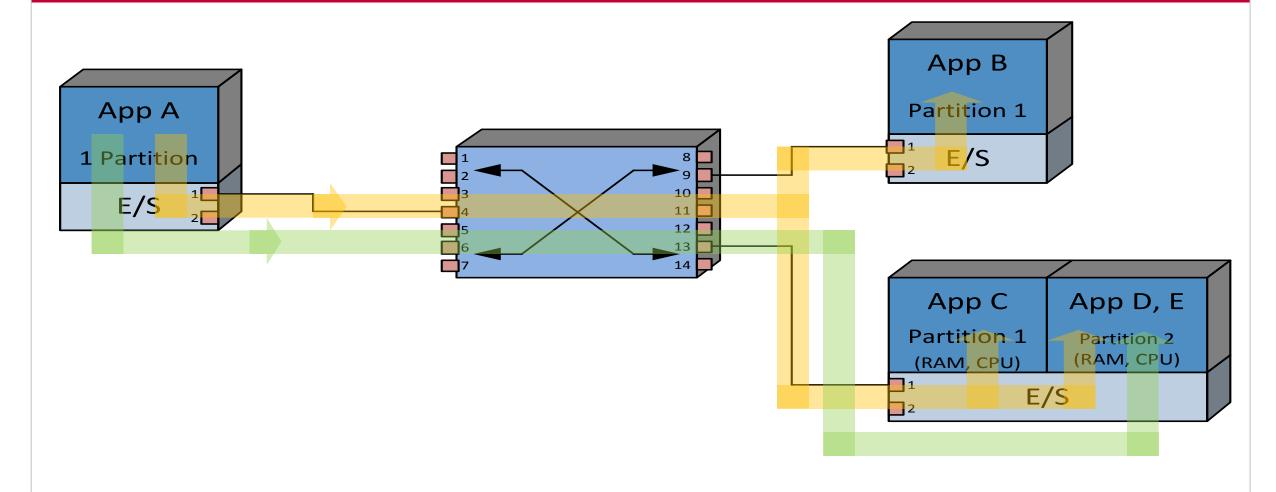


## AFDX Redundancy



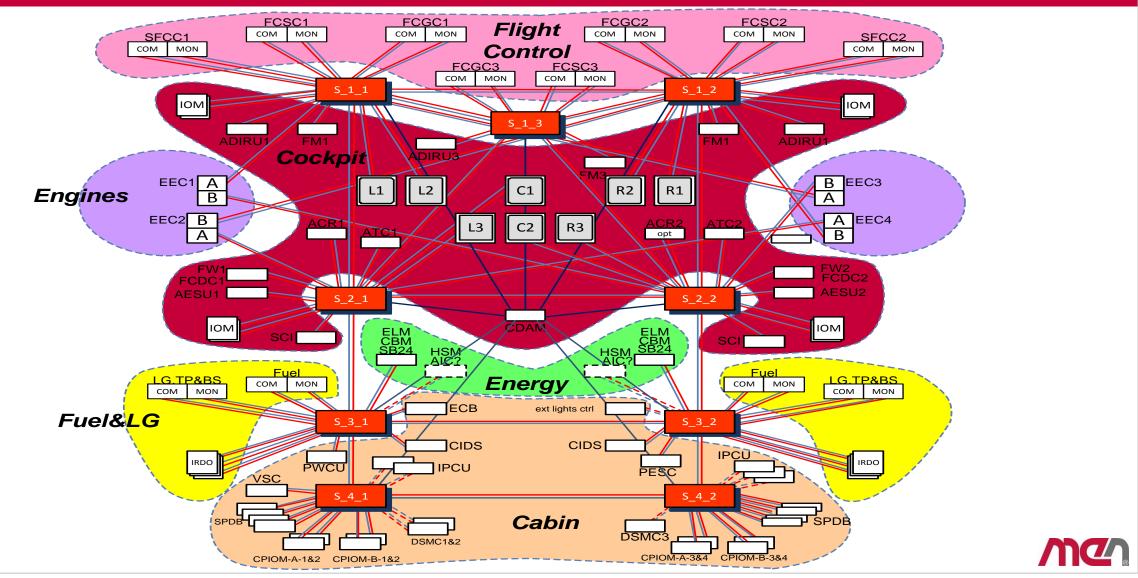


## Virtual Links replace ARINC-429





## A380 AFDX Concept



# **Current Usage**



#### **Midterm Solution**



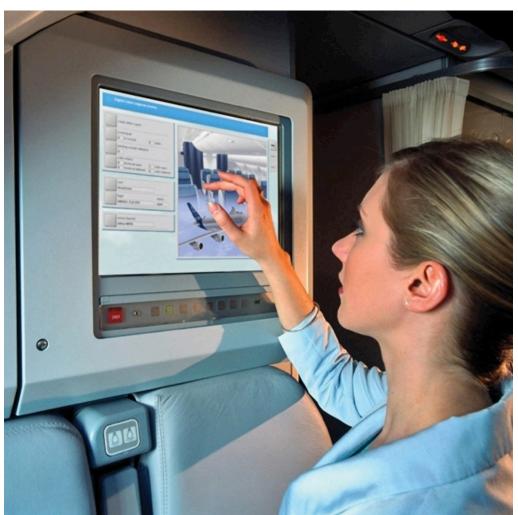




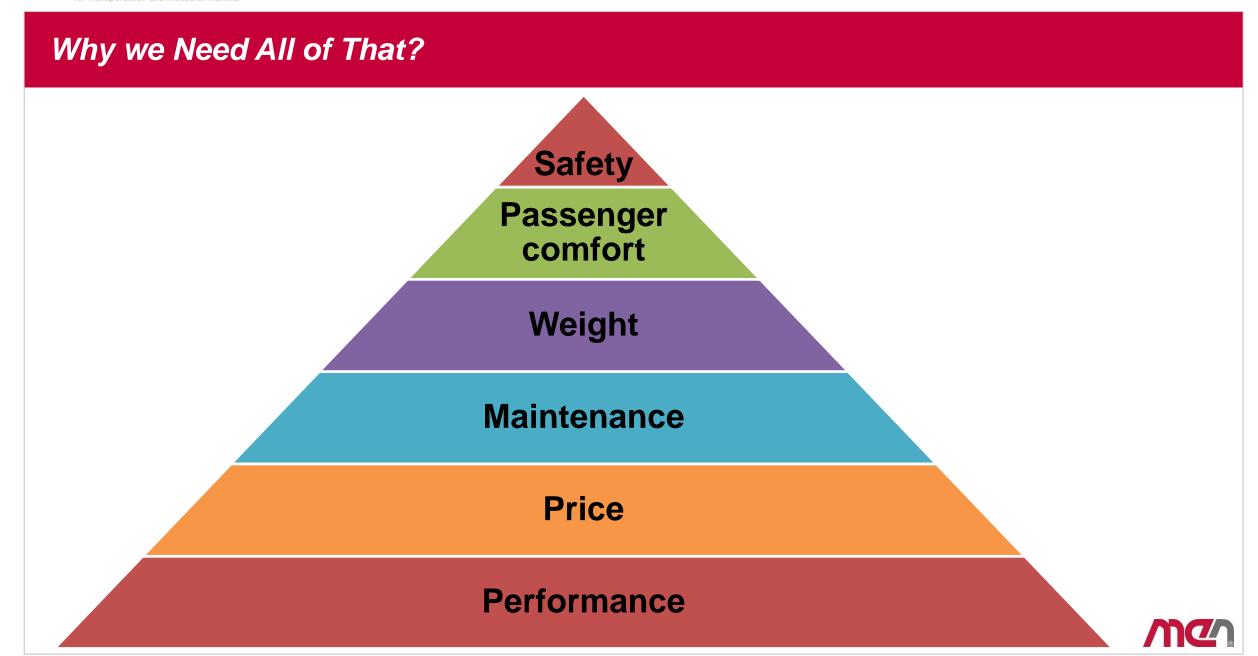


# Longterm Solution – IoT in an Airplane











MC/micro.com MC/n.de MC/n-france.fr