

# ARINC 818 SWITCHES

VIDEO SWITCHING IN REAL-TIME



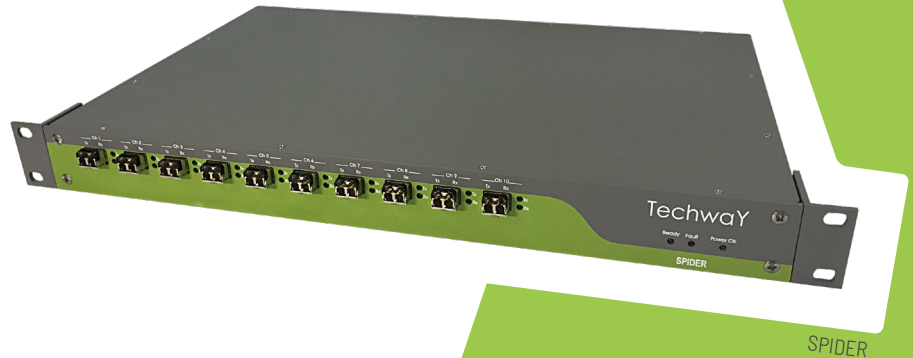
## Easy-routing of ARINC 818 video

### APPLICATIONS

- Laboratory test equipment
- Test bench
  - Production
  - Qualification
  - Certification
- ARINC 818 R&D support, prototyping

### BENEFITS

- Ready-to-use :
  - Stand-alone use
  - Rackable
- Easy-to-use :
  - Monitoring and command via Ethernet
  - Easy configuration
  - TECHWAY support
- Real-time
- Low-latency switching
- Low propagation delay
- Switching virtualization capability



TECHWAY (France) & Great River Technology (USA) have join forces to offer a wide range of ARINC 818 switches designed to simplify multi-destination and multi-source architectures.

The ARINC 818 Switches are built on the FPGA technology associated with optical interfaces with very high density. All the switches ensure that video frames remain intact and void of corruption during switching.

SPIDER Gen2 is compliant with ARINC 818 Supplement 2 and supports link rate up to 8,5 Gbps. SPIDER Gen2 is available now up to 4,25 Gbps and up to 6,375 Gbps in Q3 2021 and 8,5 Gbps in Q4 2021.

These solutions are ICD independent, the link rate and virtualization configuration are set at the order.

These switches are used on major aircraft equipment programs.

- ▶ AVIONICS
- ▶ DEFENCE



SPIDER	PANTERA
<ul style="list-style-type: none"><li>● 10 incoming optical links</li><li>● 10 outbound optical links</li><li>● Link rates up to 8,5 Gbps<ul style="list-style-type: none"><li>■ 4,25 Gbps available</li><li>■ 6,375 Gbps in Q3 2021</li><li>■ 8,5 Gbps in Q4 2021</li></ul></li></ul>	<ul style="list-style-type: none"><li>● 4 incoming optical links</li><li>● 4 outbound optical links</li><li>● Link rates up to 4,25 Gbps</li></ul>
<ul style="list-style-type: none"><li>● Separate virtual switches configuration with independent link rates<ul style="list-style-type: none"><li>■ 10x10</li><li>■ 8x8 + 2x2</li><li>■ 6x6 + 4x4</li></ul></li></ul>	<ul style="list-style-type: none"><li>● 4x4</li></ul>
<ul style="list-style-type: none"><li>● SNMP service for ATP</li><li>● Web server</li></ul>	<ul style="list-style-type: none"><li>● Web server</li></ul>
<ul style="list-style-type: none"><li>● Unicast, multicast or broadcast transmission</li><li>● Monitoring and control through common Web browser</li><li>● Real-time monitoring and error counter</li></ul>	

Information and photos subject to change without notice

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VIDEO SWITCHING IN REAL-TIME

## FEATURES

- Link rate available : 1.0625, 2.125, 3.1875, 4.25 (available), 6.375 (available Q3 2021), 8.5 (available Q4 2021) Gbps
- Optional test pattern (on demand)
- ARINC 818 Supplement 2 compliant
- Real-time link monitoring and error counter
- Cmd/Ctrl by Web server or SNMP
- Low-latency switching
- Unicast, multicast and broadcast

## SPIDER SPECIFICATIONS

- Switch control 10/100BaseT Ethernet
- 10 inputs and 10 outputs channels
- Embedded SNMP v3 and Web server
- Several virtual configurations (10x10 or 4x4+6x6 or 2x2+8x8)
- Power supply (120V - 240V) and DC (48V and 28V)
- LC optical connectors (850nm)
- 1U 19" rack format

## PANTERA SPECIFICATIONS

- Switch control 10/100BaseT Ethernet
- 4 inputs and 4 outputs channels

## ENVIRONMENTAL INFORMATION

- Operating temperature range :
  - 0°C to 50°C
- Storage temperature range :
  - -55°C to 125°C
- CE mark

## ORDERING INFORMATION

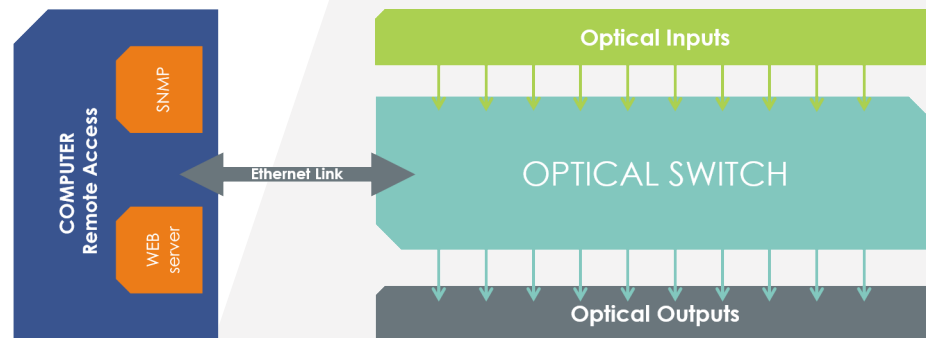
- **SPIDER2\_A818 :**  
ARINC 818 Switch, 10 inputs/10 outputs, 1U 19" rack
- **SPIDER\_WARRANTY\_EXT :**  
Annual warranty extension for SPIDER
- **PA-A8-XX-XX-XX :**  
ARINC 818 Pantera Switch, 4 inputs/4 outputs



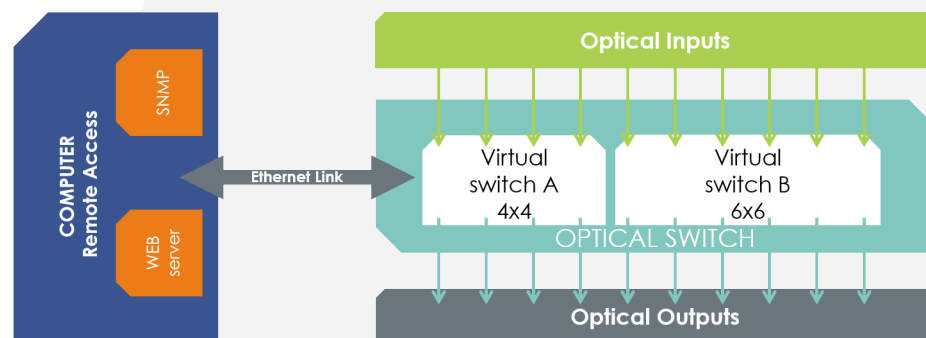
PANTERA

## CONFIGURATION

**10x10 switch configuration :**  
All inputs / outputs have the same link rate



**Switch virtual configuration :**  
Virtual switch A uses a link rate different than B



For example, virtual switch A rate is 1.0625 Gbps and virtual switch B rate is 3.1875 Gbps

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