Fiber in Action

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BarnOne Frames

32x32 full crosspoint matrix
All SFP and BNC ports are bi-directional
Redundant external power supplies
Use BarnStudio software for initial setup
BarnOne Internal Router Design
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>BTF1-01</td>
<td>16 SFP ports</td>
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<tr>
<td>BTF1-02</td>
<td>16 SFP ports and 16 BNC</td>
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<tr>
<td>BTF1-03-08</td>
<td>16 SFP ports and a 8 or 16 channel CWDM mux/de-mux built in.</td>
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<tr>
<td>BTF1-03-16</td>
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<tr>
<td>BTF1-04</td>
<td>32 SFP ports</td>
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<tr>
<td>BTF1-05-08</td>
<td>16 SFP ports and 2X 8 or 16 channel CWDM mux/de-mux built in.</td>
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<td>BTF1-05-16</td>
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<tr>
<td>BTF1-06</td>
<td>24 SFP ports, 8 BNC</td>
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<tr>
<td>BTF1-07-08</td>
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Optical Changover Switch (OCS)
Passive optical device. No electrical parts
BarnStudio software selects active input
BarnStudio Config Tool
Easily Setup Channel Names and Port Direction
Check Alarms, Signal Health and Other Metrics
Small System - Bidi

- 双方向伝送
- 全ての信号フォーマットへの対応
- 将来的な拡張性

WDM (bi-directional)
• Duplicate, transport and analyze a big number of video feeds
• Decrease the number of fiber being used
• Visual monitoring of content (HDMI)
• 3rd party control software (Dataminer)
• Monitoring and alarm
Use Case: Remote KVM
Use Case Examples

Sending Video Along With KVM:
Use Case: Camera Control

Only one level of routing
- Non-optical camera virtual routing requires control of multiple levels → video, audio, tally, intercom & RCP

(Key point - CCU-routing):
- Optical CHU→CCU transport and routing alongside 'normal' signal (SDI, MADI, Ethernet...) transport and routing in the same frame
- Camera fiber multiplexing: Up to 9 cameras in one fiber pair – including redundant fiber path.
- Up to 16 CHU x 16 CCU in one frame
- Monitoring and control on optical signal on SFP level
Use Case: Uplink Truck

- Fiber is a Truck’s Friend
  - Single facility connection
  - Reconfigure same cable
  - Weighs less than copper
  - No electronic interference
Use Case: Distance Production

- uncompressed video from field to facility
- no latency
- remove satellite cost

0-80km
Questions?

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