Breakout & Panel Solutions

Breakout Box

- The breakout boxes are used to split a 4-channel point-to-point opticalCON QUAD connection to either 2 dual channels or 4 single channels based on the opticalCON DUO
- Dust and waterproof according to IP65 in mated condition

19” Z- Panels & Plates

- Space saving design, ideal for cramped rack applications such as OB truck I/O panels
- Frame plate can be loaded with opticalCON DUO or QUAD and E2000 or ST or SC
- Frames can be equipped with frame plates (D-shape) or blind plates
- Best cable bend protection
- 1 RU or 3 RU frame

Application Example:

- The breakout boxes are used to split a 4-channel point-to-point opticalCON QUAD connection to either 2 dual channels or 4 single channels based on the opticalCON DUO
- Dust and waterproof according to IP65 in mated condition
The opticalCON powerMONITOR is a cost-saving, purpose-built measurement (monitoring) device for professional fiber optic broadcast, audio and video applications. With simultaneous monitoring of attenuation for up to 4 transmission channels, powerMONITOR provides an immediate, “on air” view into fiber optic signal strength. Visual and audible alarms can be set individually for each fiber channel, based on each channel’s power budget. powerMONITOR provides clear status information, delivers early warnings for potential problems, and assists with maintenance scheduling.

- On-air monitoring of fiber optic transmission quality
- Simultaneous power measurement (+0.0/-0.1dB measurement accuracy) of up to 4 channels
- Programmable threshold alarms
- Rack mount and mobile units
- Operates on rechargeable battery power or on mains power with fail-safe battery backup in case of unexpected mains power interruption
- Low loss (0.5dB maximum split loss)
- Wavelength selectable: multimode 850 nm or 1300 nm, single mode 1310 nm, 1550 nm or WDM (wave division multiplexing)

**powerMONITOR**

**1 RU & 3 RU 19” Rack units**

**Breakout Box**
## Ordering Information
### D-Shape Z- Panels

<table>
<thead>
<tr>
<th>Z- Panels</th>
<th>Panel Frame 1RU</th>
<th>Panel Frame 3RU</th>
</tr>
</thead>
<tbody>
<tr>
<td>NZPF1RU</td>
<td>Panel Frame 1RU OpticalCON</td>
<td>NZPF3RU</td>
</tr>
<tr>
<td>NZPF3RU</td>
<td>Panel Frame 3RU OpticalCON</td>
<td>NZPF3RU</td>
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<tr>
<td>NZP1RU-8</td>
<td>Panel 1RU, 8 D size cutouts</td>
<td>NZPF3RU</td>
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<tr>
<td>NZPFD</td>
<td>Panel Frame Plate OpticalCON</td>
<td>NZPFD-4ST</td>
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<tr>
<td>NZPFBP</td>
<td>Panel Frame Blind Plate</td>
<td>NZPFD-4E</td>
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<tr>
<td>NZPFD-2</td>
<td>Panel Frame Plate 2 D size cutouts</td>
<td>NZPFD-4E</td>
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<tr>
<td>NZPFD-4E</td>
<td>Panel Frame Plate 1 D size cutout, 2 E2000 compact chassis cutouts</td>
<td>NZPFD-4E</td>
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<tr>
<td>NZPFD-4SC</td>
<td>Panel Frame Plate 1 D size cutout, 2 SC compact chassis cutouts</td>
<td>NZPFD-4SC</td>
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<tr>
<td>NZPFD-4ST</td>
<td>Panel Frame Plate 1 D size cutout, 4 ST chassis cutouts</td>
<td>NZPFD-4ST</td>
</tr>
<tr>
<td>NZPFD-4CS-S</td>
<td>Panel Frame Plate 1 D size cutout, 4 SC simplex cutouts</td>
<td>NZPFD-4CS-S</td>
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<tr>
<td>NOSPM-LC50-LC50</td>
<td>Multimode 1 x 2 splitter LC*</td>
<td>NOSPM-LC50-LC50</td>
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<tr>
<td>NOSPS-LC50-LC50</td>
<td>Single mode PC 1 x 2 splitter LC*</td>
<td>NOSPS-LC50-LC50</td>
</tr>
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</table>

* ... other connectors (SC, ST, E200) on request

### Drawing

#### Panel Frame 1RU

![Panel Frame 1RU Diagram](image1)

#### Panel Frame 3RU

![Panel Frame 3RU Diagram](image2)

#### Powermonitor

![Powermonitor Diagram](image3)

#### Breakout Box

![Breakout Box Diagram](image4)
Ordering Information
powerMONITOR & Breakout Box

POWERMONITOR

<table>
<thead>
<tr>
<th>Channel</th>
<th>Mode</th>
<th>Chassis Front</th>
<th>Chassis Rear</th>
<th>power MONITOR</th>
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<tbody>
<tr>
<td>2</td>
<td>S</td>
<td>2F (DUO)</td>
<td>2R (DUO)</td>
<td>PM</td>
</tr>
<tr>
<td>4</td>
<td>SA</td>
<td>4F (QUAD)</td>
<td>4R (QUAD)</td>
<td></td>
</tr>
</tbody>
</table>

1) ... add attribute X for crossed fiber wiring

BREAKOUT BOX

NO4SB4D-A
NO4SBB4D-A

NO4SBB2D-A 1) 1 x NO4FDW-A to 2 x NO2-4FDW-A, Single mode PC
NO4SBB2D-A 1) 1 x NO4FDW-A to 2 x NO2-4FDW-A, Single mode APC
NO4MBB2D-A 1) 1 x NO4FDW-A to 2 x NO2-4FDW-A, Multimode PC
NO4SBB4D-A 1 x NO4FDW-A to 4 x NO2-4FDW-A, Single mode PC
NO4ABB4D-A 1 x NO4FDW-A to 4 x NO2-4FDW-A, Single mode APC
NO4MBB4D-A 1 x NO4FDW-A to 4 x NO2-4FDW-A, Multimode PC
NO12SABB6D-A 1 x NO4FDW-A to 6 x NO2-4FDW-A, Single mode APC
NO12MBB6D-A 1 x NO4FDW-A to 6 x NO2-4FDW-A, Multimode PC
NO12SABB3Q-A 1 x NO4FDW-A to 3 x NO4FDW-A, Single mode APC
NO12MBB3Q-A 1 x NO4FDW-A to 3 x NO4FDW-A, Multimode PC

ACCESSORIES

SCNO-FDW-A Rugged sealing cover for opticalCON chassis connectors (see page 23)

Breakout Box with powerMONITOR

NO*BB1*-PM-A 1) breakout box equipped with opticalCON powerMONITOR

1) ... add attribute X for crossed fiber wiring

POWER SUPPLY FOR POWERMONITOR

NOP5-1RU-PM opticalCON powerMONITOR SW Power Supply, powers up to 2 power monitors, Intern. AC plugs included
NOP5-3RU-PM opticalCON powerMONITOR 15W Power Supply, 1 + 3RU use, powers up to 9 power monitors, IEC power socket
NOP5-E-PM opticalCON powerMONITOR, power supply extension cable to daisy-chain power
opticamSWITCH
Ultimate solution for fiber optic camera routing

The opticamSWITCH is the ultimate solution for fiber optic camera routing within broadcast studios. The device allows switching of unlimited camera positions between several studios and control rooms, eliminating the need for high-maintenance, risky matrix patch fields using SMPTE patch cables. The device works on trendsetting, silica-based PLC (planar lightwave circuits) equipped with TO (thermo optic) switches. The innovative design guarantees rugged and safe non-blocking fiber plus camera power switching without any moving parts. The LAN-based remote control software simplifies work, shows switching and camera status, and enables broadcast production automation.

- Thermo Optic PLC Switch
- Non Blocking Structure
- Intelligent Power Working Circuit
- LAN Remote Control
- 19” x 1RU Rack unit