OTAU7 1xN Optical Switch
Optical Test Access Unit (OTAU)

Features
- 1 x N latching optical switch (N = 4 up to 130)
- Singlemode: 1310/1550/1625 nm or Multimode: 850/1310 nm
- 1RU-3RU Rack Mount (19” or 23”)
- Remote or local (front panel) operation
- 10BaseT, USB, and RS232 control interfaces
- GUI and TL1 interface protocol
- -48 VDC operation (100-250 VAC option available)
- 19” or 23” rack mounting options
- Removable adapters for easy cleaning
- Connectors exit at an angle to prevent fiber bends
OTAU7 1 x N Optical Switch

Ordering Information

Catalog Number

OTAU7 - - U- - - - - - -

Switch Type:

Leave Blank | Single | Dual

Switch Size:

0.04 | 1x4
130 | 1x130

Module Size*:

1 | 1 Rack Unit
2 | 2 Rack Units
3 | 3 Rack Units

Connector Style:

USC | SC UPC
ASC | SC APC
UFC | FC UPC
AFC | FC APC
UST | ST UPC
ULC | LC UPC
ALC | LC APC
ULX | LX.5 UPC
ALX | LX.5 APC
AE2 | E2000 APC
AF3 | F3000 APC

Power:

Leave Blank | DC power
AC | AC/DC power

Multimode Options:

Leave Blank | SM
MM-85-50 | MM 850 50/125UM
MM-85-62 | MM 850 62.5/125UM
MM-13-50 | MM 1310 50/125UM
MM-13-62 | MM 1310 62.5/125UM

* Module Sizes:

1.75 in. (1U)

- Up to 1x12 switch (standard connectors)
- Up to 1x24 switch (small-form-factor - LX.5°)

3.5 in. (2U)

- Up to 1x42 switch (standard connectors)
- Up to 1x84 switch (small-form-factor - LX.5°)

5.25 in. (3U)

- Up to 1x75 switch (standard connectors)
- Up to 1x130 switch (small-form-factor - LX.5°)
# OTAU7 1 x N Optical Switch

## Specifications

### OPTICAL
- **Insertion Loss 1x4-1x25**: 1.4 dB maximum; 0.8 dB typical
- **Insertion Loss 1x26-1x130**: 1.5 dB maximum; 0.9 dB typical
- **Return Loss Singlemode**: 50 dB minimum; 55 dB typical
- **Return Loss Multimode**: 16 dB minimum; 20 dB typical
- **Bandpass Singlemode**: 1290 - 1330 nm and 1525 - 1610 nm
- **Bandpass Multimode**: 830 - 870 nm and 1290 - 1330 nm
- **Switching Speed**: 65 ms adjacent channels; 10 ms each additional ch.
- **Repeatability**: +/-0.02 dB max; +/-0.01 dB typical (over 100 cycles)
- **Polarization Dependent Loss**: 0.08 dB maximum; 0.06 dB typical
- **Crosstalk**: -70 dB maximum
- **Optical Input Power**: 300 mW maximum (continuous wave)

### ENVIRONMENTAL
- **Operating Temperature**: 0°C to +50°C
- **Storage Temperature**: -40°C to +70°C (5%-95% RH, non-condensing)

### ELECTRICAL
- **Input Voltage**: -37 to -60 VDC
- **Input Current @ -37 VDC**: 132 mA
- **Input Current @ -48 VDC**: 80 mA
- **Input Current @ -48 VDC**: 115 mA while switching
- **Voltage (AC)**: 88-264 VAC
- **Line Frequency (AC)**: 47-63 Hz
- **Input Current (AC)**: 0.7 A/115 VAC, 0.4 A/230 VAC

### MECHANICAL
- **Rack Compatibility**: 19”/23” EIA or WECO
- **Control Interface Connectors**: RS232-DB9, 10BaseT-RJ45 (with controller)
- **Power Connector**: 7-pin plug (provided with chassis)
- **Fiber Optic Connectors**: SC, FC, ST®, LC, ASC, AFC, LX.5®, E2000™, F3000™
- **Operational Life**: 10 million switch cycles

### AGENCY COMPLIANCE
- **Safety Listing**: UL1459 / CSA22.2 / EN60950 (CE)
- **EMC**: FCC Part 15, Subpart B, Class A, CISPR 22

* Includes 2 UPC connector losses (add 0.1 dB IL per APC connector and 0.3 dB IL per MM connector)