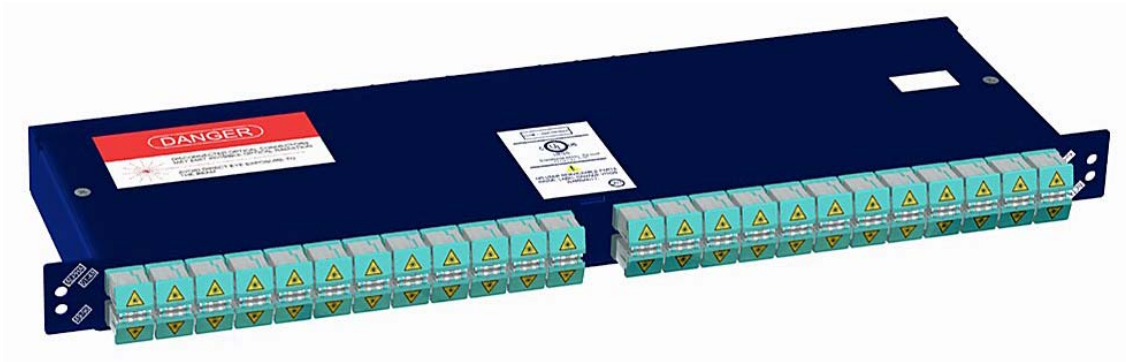**Uniprise® Solutions**

Keyed High-Density Module Instructions
(For Use with External Bracket Mounting Kit)

General

The **Uniprise® ReadyPATCH®** keyed high-density modules are designed to be used with the separately orderable 19-inch (483mm) external bracket mounting kit. These modules are intended for indoor use, but may be used outdoors in a suitable protective enclosure.

Ordering Information is listed below:

Material ID	Product Number	Description
760119149	RFE-HDM-048-8W-LC02-KGR	48LC-SM high-density module, keyed, green
760119156	RFE-HDM-048-8W-LC02-KRD	48LC-SM high-density module, keyed, red
760119164	RFE-HDM-048-8W-LC02-KYL	48LC-SM high-density module, keyed, yellow
760123778	RFE-HDM-072-5K-LC02-KBL	72LC-LS high-density module, keyed, blue
760116921	RFE-HDM-072-5K-LC02-KGR	72LC-LS high-density module, keyed, green
760116939	RFE-HDM-072-5K-LC02-KRD	72LC-LS high-density module, keyed, red
760116913	RFE-HDM-072-5K-LC02-KYL	72LC-LS high-density module, keyed, yellow
760116962	RFE-HDM-072-8W-LC02-KGR	72LC-SM high-density module, keyed, green
760116970	RFE-HDM-072-8W-LC02-KRD	72LC-SM high-density module, keyed, red
760116954	RFE-HDM-072-8W-LC02-KYL	72LC-SM high-density module, keyed, yellow
760116822	RFE-HDM-096-5K-LC02-KGR	96LC-LS high-density module, keyed, green
760116210	RFE-HDM-096-5K-LC02-KRD	96LC-LS high-density module, keyed, red
760116228	RFE-HDM-096-5K-LC02-KYL	96LC-LS high-density module, keyed, yellow
760117010	RFE-HDM-096-8W-LC02-KGR	96LC-SM high-density module, keyed, green
760116996	RFE-HDM-096-8W-LC02-KRD	96LC-SM high-density module, keyed, red
760117002	RFE-HDM-096-8W-LC02-KYL	96LC-SM high-density module, keyed, yellow
760057703	RFE-HDM-048-5K-LC02	48LC-LS high-density module
760057711	RFE-HDM-048-6F-LC02	48LC-MM high-density module
760057729	RFE-HDM-048-8W-LC02	48LC-SM high-density module
760057679	RFE-HDM-048-5K-SC02	48SC-LS high-density module
760057687	RFE-HDM-048-6F-SC02	48SC-MM high-density module
760057695	RFE-HDM-048-8W-SC02	48SC-SM high-density module
760116905	RFE-HDM-072-5K-LC02	72LC-LS high-density module
760116947	RFE-HDM-072-8W-LC02	72LC-SM high-density module
760057646	RFE-HDM-096-5K-LC02	96LC-LS high-density module
760057653	RFE-HDM-096-6F-LC02	96LC-MM high-density module
760057661	RFE-HDM-096-8W-LC02	96LC-SM high-density module

at work

Uniprise® Keyed High-Density Module (96LC-LS Version Shown)

How to Contact Us

- To find out more about **CommScope® Uniprise®** Solutions, visit us on the web at http://www.commscope.com/

- For customer support regarding **Uniprise** products, contact your local account representative or call 1-800-544-1948 or (828) 459-5000.

Tools Required

- Philips head screwdriver
- Lint-free tissue
- Isopropyl alcohol, 91% pure or higher

Parts List

Verify parts against the parts list below:

Quantity	Description
1	High-density module
1	Cleaning instructions
1	Test report
1	Instruction sheet

Separately Orderable Parts

Material ID	Part Number	Description
760117465	19 EXT BRKT KIT	19-inch external bracket mounting kit, 1U High

Optional Tools

Material ID	Description
760053199	Fiber optic connector cleaning and inspection kit
760053207	Fiber optic connector cleaning and inspection consumables

Separately Orderable Cable Assemblies

Contact your **Uniprise** sales representative for more information on a wide variety of trunk cables that are compatible with this module.

⚠ Cautions

- Isopropyl Alcohol is flammable, and can cause eye irritation on contact. If eye contact occurs, flush with water for at least 15 minutes. In case of ingestion, consult a physician. Use only in well ventilated areas
- Disconnected optical components may emit invisible optical radiation that can damage your eyes. Never look directly into an optical component that may have a laser coupled to it. Serious and permanent retinal damage is possible. If accidental exposure to laser radiation is suspected, consult a physician for an eye examination.
- Wearing safety glasses during installation of this shelf is recommended. Although standard safety glasses provide no protection from potential optical radiation, they offer protection from accidental airborne hardware and cleaning solvents.
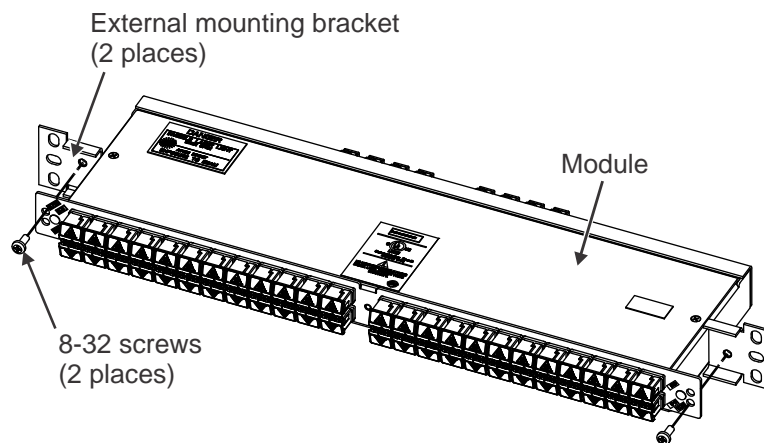
Precautions

- **Uniprise**® keyed high-density modules contain fiber optic cable and passive optical components. When removed from protective packing, they should be handled carefully and installed in appropriate racks for mechanical support and protection.
- **Uniprise** keyed high-density modules require virtually no maintenance to maintain their performance. They contain no user-serviceable components, and any damage to the anti-tamper label or removal of top cover or front adapter mounting panel will void the warranty.
- Fiber optic trunk cable and jumper performance is sensitive to bending, pulling, and crushing. Minimum bend radius must be maintained during installation per the manufacturer's specification. Appropriate pulling socks must be used during installation, and pulling forces shall not exceed manufacturer's recommendations. MPO terminated trunk cables may use ribbonized fiber optic cable, which has a preferential bend axis. Use caution to avoid kinking trunk cables.
- Care should be taken not to compromise the stability of the rack by installation of this equipment.
- To be installed in restricted access areas only.

Connector Cleaning

- **Uniprise** keyed high-density modules are pre-terminated, with protective dust caps installed on all adapters. Connectors internal to the adapters are clean when purchased.
- Clean trunk cable and jumper connectors per manufacturer's recommendations prior to connection to the shelf.
- If trunk cables or jumpers are removed, replace provided dust caps on the adapters to protect the internal connectors.
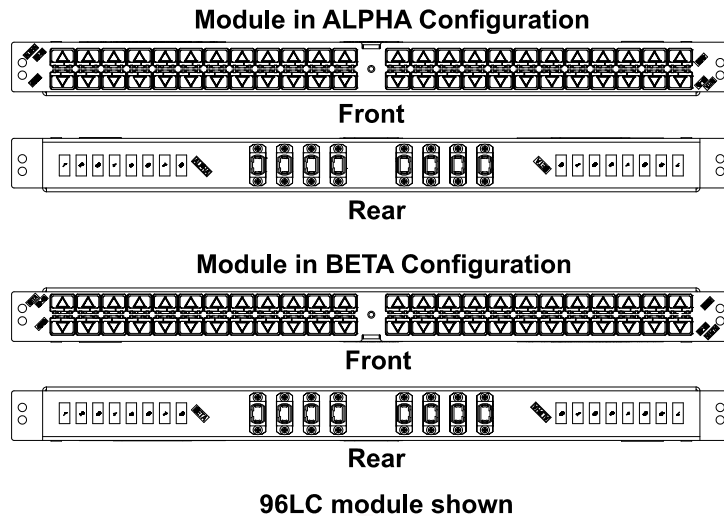
Step 1 – Install External Bracket Mounting Kit

External mounting bracket (2 places)

Module

8-32 screws (2 places)

1. Using two 8-32 screws supplied with the external bracket mounting kit, attach mounting bracket to module.
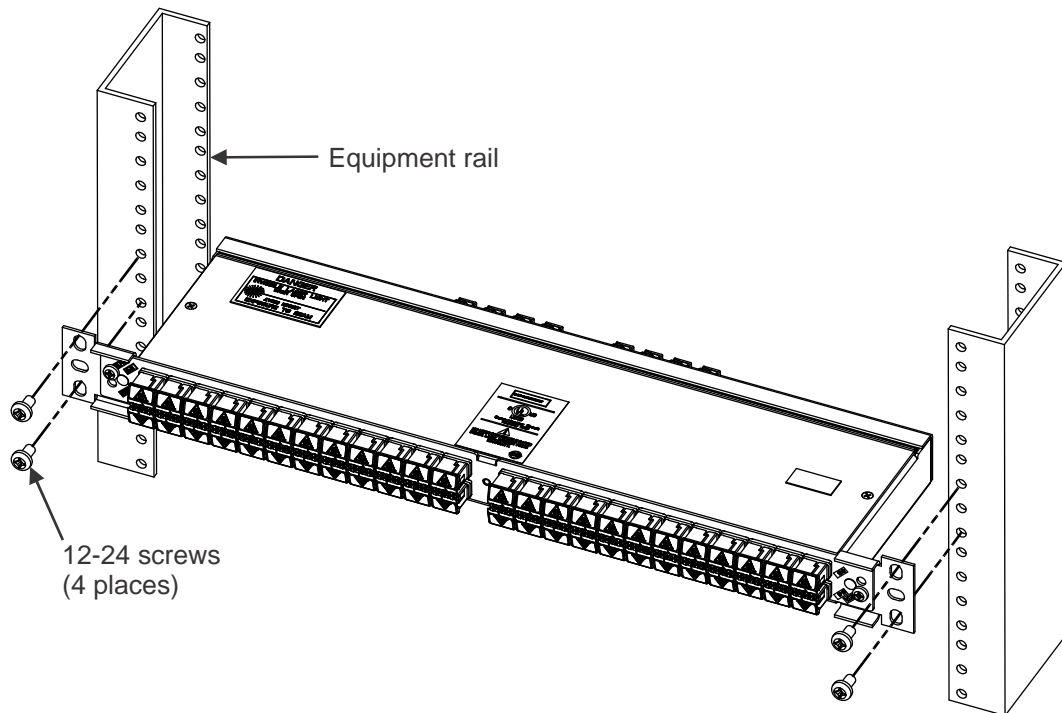
Step 2 – Configure Module

Note: Uniprise® high-density keyed modules **must** be configured as shown for proper polarity. Identical modules are used at both ends of trunk cable, but module orientation is inverted from end to end. Module at one end of trunk cable **must** be oriented in "ALPHA" configuration, while module at opposite end of trunk cable **must** be oriented in "BETA" configuration.

Module in ALPHA Configuration

Front

Rear

Module in BETA Configuration

Front

Rear

96LC module shown

1. Before installing module in panel, orient module in "ALPHA" or "BETA" configuration as shown above.

Step 3 – Install Module to Equipment Rails

Equipment rail

12-24 screws
(4 places)

1. Using four 12-24 screws supplied with the external bracket mounting kit, attach module to equipment rails.

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