

tML<sup>®</sup> - Fiber Optic TAP Module LC Duplex 2-fold 50 / 125 $\mu$  OM4 10GBASE-SR 70:30



## tML<sup>®</sup> - tde Modular Link

tML<sup>®</sup> is a patented, modular cabling system consisting of the three key components module, trunk cable and rack mount enclosure. The system components are 100 percent manufactured, pre-assembled and tested in Germany. They enable plug-and-play installation on site - especially in data centres, but also in industrial environments - within the shortest possible time. The system is characterized by highest packing density and highest flexibility during migration to higher transmission rates. Fibre optic and TP modules can be combined in one rack mount enclosure. 96x fibre optics LC Duplex or 96x MPO connectors can be used modularly on a 19-inch height unit. Thanks to its patented polarity and dark fibre modules, the tML system offers the simplest migration options to 100G and more.

The tML<sup>®</sup> - FO TAP Module is intended for the installation in the tML<sup>®</sup> Rack Mount Enclosure 1U (for 8 x Modules).



**tde<sup>®</sup> trans data elektronik GmbH**

**Headquarter address:**

Lingener Str. 2  
D-49626 Bippen/Ohrte  
Tel.: +49 5435 9511 0  
Fax.: +49 5435 9511 32

**Sales office address:**

Prinz-Friedrich-Karl-Str. 46  
D-44135 Dortmund  
Tel.: +49 231 914 36 99  
Fax.: +49 231 914 31 29

info@tde.de | www.tde.de

## tML<sup>®</sup> - Fiber Optic TAP Module LC Duplex 2-fold 50 / 125 $\mu$ OM4 10GBASE-SR 70:30

### Technical Data

|       |  |
|-------|--|
| Entry | 2 x LC Duplex Adapter (black) with self-closing shutter front  |
| Exit  | 4 x LC Duplex Adapter (purple) with self-closing shutter front   |
| Tests | Interferometer, Insertion Loss, Return Loss and Visual Final Inspection; all measured values are electronically archived |
|       | QS-Managementsystem ISO 9001, ISO 14001 and TL 9000  |

|             |                        |
|-------------|------------------------|
| Box         | Galvanized steel sheet |
| Front Panel | Stainless steel        |
| Dimensions  | 110 x 108 x 20 mm      |

### FO Adapters

When the connector is inserted into the adapter it compresses the springs, opening the internal shutter. The internal shutter opens, and due to the special design of the shutter, it will not touch the ferrule end face. As the connector is removed from the adapter, the shutter spring automatically returns the internal shutter to the closed position.

|                                 |                          |
|---------------------------------|--------------------------|
| Type                            | LC Duplex                |
| Application                     | Multimode OM4            |
| Design                          | One-Piece without flange |
| Connector style                 | SC simplex               |
| Color                           | Magenta                  |
| Housing material                | Plastic                  |
| Sleeve                          | Zirkonia Straight Split  |
| Self-closing shutter material   | Metal                    |
| Self-closing shutter protection | Dust and laser light     |
| Manufacturer                    | tde                      |

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|                                 |                          |
|---------------------------------|--------------------------|
| Type                            | LC Duplex                |
| Design                          | One-Piece without flange |
| Connector style                 | SC simplex               |
| Color                           | Green                    |
| Housing material                | Plastic                  |
| Sleeve                          | Zirkonia Straight Split  |
| Self-closing shutter material   | Metal                    |
| Self-closing shutter protection | Dust and laser light     |

## tML<sup>®</sup> - Fiber Optic TAP Module LC Duplex 2-fold 50 / 125μ OM4 10GBASE-SR 70:30

|              |     |
|--------------|-----|
| Manufacturer | tde |
|--------------|-----|

### FO Connectors

|                       |  |
|-----------------------|--|
| Connector Type        | LC Unibody Duplex                              |
| Housing               | Plastic, Magenta                               |
| Ferrule               | Zirkonia Straight Split, Spring-loaded Axially |
| Ferrule Hole          | 126 μ  |
| Mating Cycles         | 1.000  |
| Operating Temperature | -40°C up to +75°C                              |
| Strain Relief to      | 100 N  |
| Manufacturer          | tde  |
| Simplex / Duplex Clip | with Duplex Clip                               |

### Optical performance

| Fiber       | Type | Wavelength | Insertion loss typ. | Insertion loss max. | Return loss min. |
|-------------|------|------------|---------------------|---------------------|------------------|
| 50/125μ OM4 | LC   | 850 nm     | < 0.10 dB           | 0.30 dB             | 35 dB            |

### Product variants & accessories

| Art.-No.             | Description  |
|----------------------|--|
| TMLM02LCADS09E-TAP50 | tML <sup>®</sup> - Fiber Optic TAP Module LC APC Duplex 2-fold 9 / 125μ OS2 10GBASE-LR 50:50 |
| TMLM02LCADS09E-TAP70 | tML <sup>®</sup> - Fiber Optic TAP Module LC APC Duplex 2-fold 9 / 125μ OS2 10GBASE-LR 70:30 |
| TML-M02LCDS09E-TAP50 | tML <sup>®</sup> - Fiber TAP Module LC Duplex 2-fold 9 / 125μ OS2 10GBASE-LR 50:50           |
| TML-M02LCDS09E-TAP70 | tML <sup>®</sup> - Fiber TAP Module LC Duplex 2-fold 9 / 125μ OS2 10GBASE-LR 70:30           |
| TML-M02LCDS50G4TAP50 | tML <sup>®</sup> - Fiber Optic TAP Module LC Duplex 2-fold 50 / 125μ OM4 10GBASE-SR 50:50    |
| TML-M02LCDS50G4TAP70 | tML <sup>®</sup> - Fiber Optic TAP Module LC Duplex 2-fold 50 / 125μ OM4 10GBASE-SR 70:30    |