

# Data sheet

## E-DAT modul 6x8(8) for 1RU patch panel Cat.6<sub>A</sub>

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130922-03-E

EAN 4250184106197

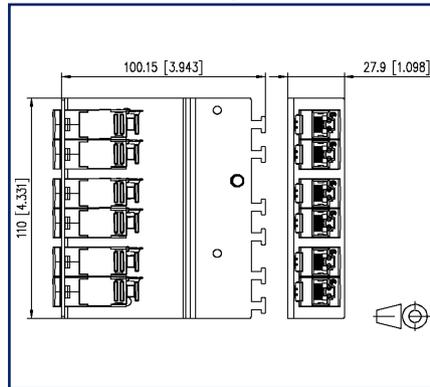
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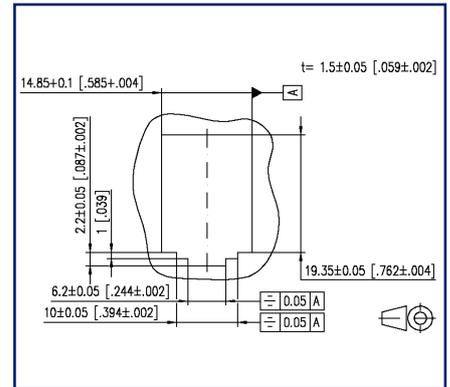
### Illustrations



Dimensional drawing



Cut-out



See enlarged drawings at the end of document

### Product specification

- module frame with 6 E-DAT modul modules
- Cat.6<sub>A</sub> component test according to ISO/IEC 11801, DIN EN 50173-1, ANSI/TIA-568.2-D and IEC 60603-7-51
- compliance with class E<sub>A</sub> according to ISO/IEC 11801, DIN EN 50173-1
- tested: Link up to 500 MHz
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus, UPoE and 4PPoE) and HDBaseT
- easy to install connection of 2 to 4 pair data lines AWG 26/1 - 22/1 and stranded wires with 7 copper conductors AWG 26/7 - 22/7 to BTR 8-fold insulation displacement connectors (IDC)
- marking of conductor assignment to T568A and T568B
- 1RU module frame for mounting in surface-mounted housing, top hat rail adapter or 1RU module frame
- optional strain relief using cable ties
- grounding bolt M6 x 10 with nut and lock washer

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## Technical Data

### General Data

|   |   |
|---|---|
| Fields of application                         | structured building cabling<br>Consolidation points<br>office areas<br>Distributed building services<br>data center |
| Mechanical measurement according to MICE      | M1  |
| Ingress measurement according to MICE         | I1  |
| Climatic measurement according to MICE        | C1  |
| Electromagnetic measurement according to MICE | E2  |
| Design  | patch panel   |
| Mounting style                                | 1RU   |
| Shielding                                     | shielded  |
| Transmission technology                       | Copper  |
| Wiring  | T568A and T568B   |
| Color   | stainless steel   |
| Dimensions                                    |   |
| Dimension (L x W x H)                         | 110.15 mm x 110 mm x 27.9 mm  |
| Dimension (L x W x H)                         | 4.337 in. x 4.331 in. x 1.098 in.   |
| Height unit                                   | for 1RU   |
| Modularity                                    | yes   |

### Transmission characteristics

|  |                |
|--|----------------|
| Category (ISO)                                   | 6 <sub>A</sub> |
| Class (ISO/IEC)                                  | E <sub>A</sub> |
| Category (TIA)                                   | 6A             |
| Remote Powering                                  | yes            |
| PoE  | IEEE 802.3af   |
| PoE plus   | IEEE 802.3at   |
| UPoE   | yes            |
| 4PPoE  | IEEE 802.3bt   |
| HDBaseT  | yes            |
| Transmission rate up to 100 MBit (Fast Ethernet) | IEEE 802.3bw   |
| Transmission rate up to 1 GBit (Fast Ethernet)   | IEEE 902.3ab   |
| Transmission rate up to 10 GBit                  | IEEE 802.3an   |



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| Connections/interfaces                          |   |
|---|---|
| Connector technology interface 1                | IDC-connection                                |
| Connector technology interface 2                | RJ45-jack                                     |
| Number of ports interface 2                     | 6   |
| Number of ports interface 2 equipped            | 6   |
| Number of positions/contacts interface 1        | 6 x 8   |
| Number of positions/contacts interface 2        | 6 x 8P/8C                                     |
| Termination data, solid wire (min. - max.)      |   |
| Conductor cross section, solid wire             | AWG 26/1 - AWG 22/1                           |
| Conductor cross section, solid wire             | 0.128 mm <sup>2</sup> - 0.324 mm <sup>2</sup> |
| Conductor diameter, solid wire (bare copper)    | 0.409 mm - 0.643 mm                           |
| Conductor diameter, solid wire (bare copper)    | 0.016 in. - 0.025 in.                         |
| Termination data, stranded wire (min. - max.)   |   |
| Conductor cross section, stranded wire          | AWG 26/7 - AWG 22/7                           |
| Conductor cross section, stranded wire          | 0.141 mm <sup>2</sup> - 0.355 mm <sup>2</sup> |
| Conductor diameter, stranded wire (bare copper) | 0.483 mm - 0.762 mm                           |
| Conductor diameter, stranded wire (bare copper) | 0.019 in. - 0.03 in.                          |
| Cable sheath diameter (min. - max.)             |   |
| Cable sheath diameter                           | 5.5 mm - 10                                   |
| Cable sheath diameter                           | 0.197 in. - 0.394                             |
| Cable access/outlet                             | 180°  |
| Ground connection                               | grounding bolt M6x10 with nut and lock washer |
| Shield connection                               | flexible contact spring                       |

| Electrical characteristics                                      |                   |
|---|-------------------|
| Current carrying capacity                                       | max. 1 A at 60 °C |
| Rated voltage   | max. 60 V DC      |
| Contact resistance  | max. 20 mOhm      |
| Through resistance  | max. 200 mOhm     |
| Insulation resistance   | min. 500 MOhm     |
| Dielectric strength conductor-conductor (secondary)             | max. 1000 V DC    |
| Dielectric strength conductor-conductor, peak value (secondary) | max. 1.000 V AC   |
| Dielectric strength conductor-shield                            | max. 1500 V DC    |

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### Electrical characteristics

Dielectric strength conductor-shield, peak value      max. 1500 V AC

### Mechanical data

|  |           |
|--|-----------|
| Cut-out  | MC module |
| Insertion and withdrawal force                               | max. 30 N |
| Life - Number of mating cycles                               | min. 750  |
| Position/mounting of latch<br>standard installation position | top       |
| strain relief  | cable tie |

### Materials and material properties

|  |                       |
|--|-----------------------|
| Material - Jack housing                  | GD-Zn                 |
| Material - Jack contact                  | Spring steel          |
| Material - Jack contact finish           | Ni + Au (nickel-gold) |
| Material - Terminal block contact        | CuSn                  |
| Material - Terminal block contact finish | Sn                    |
| Material - Jack shield                   | GD-Zn                 |
| Material - Stuffer cap                   | GD-Zn                 |
| Material - Strain relief                 | stainless steel       |
| Material - Front cover                   | stainless steel       |
| Material - Module support                | stainless steel       |
| Halogen free                             | yes                   |
| RoHS                                     | compliant             |

### Environmental conditions

|                            |                 |
|----------------------------|-----------------|
| Temperature (min. - max.)  |                 |
| Temperature - Storage °C   | -40 °C - 70 °C  |
| Temperature - Storage °F   | -40 °F - 158 °F |
| Temperature - Operating °C | -40 °C - 70 °C  |
| Temperature - Operating °F | -40 °F - 158 °F |

## Technical Data

### Certifications

GHMT Type Approval



Component

### Approvals

UL listed (file no.)



DUXR.E178484

### Standards/Regulations

Generic cabling systems

General requirements ISO/IEC 11801-1:2017-11 | DIN EN 50173-1:2018-10  
ANSI/TIA-568.2-D

Office buildings ISO/IEC 11801-2:2017-11 | DIN EN 50173-2:2018-10  
ANSI/TIA-568.2-D

Living units ISO/IEC 11801-4:2017-11 | DIN EN 50173-4:2018-10  
ANSI/TIA-570-D

Data centers ISO/IEC 11801-5:2017-11 | DIN EN 50173-5:2018-10  
ANSI/TIA-942-B

Connectors for electronic equipment

Free and fixed connectors DIN EN 60603-7-51:2011-01, DIN EN 60603-7:2019-11, DIN EN  
60603-7-1:2012-01

Connectors for electronic equipment - Tests and measurements

Test standard for connectors (engaging and separating connectors under electrical load) DIN-EN 60512-99-001, DIN-EN 60512-99-002

Endurance tests DIN EN 60603-7:2019-11, DIN EN 60603-7-1:2012-01

Degrees of Protection Provided by Enclosures IEC 60529

Climate tests DIN EN 60603-7:2019-11, DIN EN 60603-7-1:2012-01

### Classifications

ETIM 7.0 EC001128

ETIM 8.0 EC001128

ETIM 9.0 EC001128

ETIM 10.0 EC001128

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**Technical Data****Packing details**

Type of packaging 1 pc(s) / box

**Application note**

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).



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### Accessories

| P/N            | Designation  |
|----------------|--|
| 130898-00-I    | BLIND module light gray                            |
| 130898-00-RW-I | BLIND module pure white                            |
| 130898-01-I    | COAX modul F jack / F jack                         |
| 130898-02-I    | COAX modul IEC jack / F jack                       |
| 130898-03-I    | COAX modul IEC plug / F jack                       |
| 130908-I-B1    | UAE modul Cat.5e white                             |
| 130909-I       | UAE modul Cat.6 jack white                         |
| 130910-DNV     | E-DAT modul Cat.6 <sub>A</sub> 8(8) jack DNV       |
| 130910-I       | E-DAT modul Cat.6 <sub>A</sub> 8(8) jack           |
| 130910-Z       | E-DAT modul Cat.6 <sub>A</sub> 8(8) jack, (12 pcs) |
| 1309A0-I       | E-DAT modul coupler 8(8) 180° class E <sub>A</sub> |
| 130A11-29-I    | UAE modul 8(8) Cat.6 <sub>A</sub> black            |
| 130A11-I       | UAE modul 8(8) Cat.6 <sub>A</sub> white            |
| 130B11-25-E    | 25Gmodul   |
| 130B11-25-Z    | 25Gmodul (12 pcs)                                  |
| 130B11-DNV     | C6 <sub>A</sub> modul 180° jack DNV                |
| 130B11-E       | C6 <sub>A</sub> modul 180° jack                    |
| 130B11-Z       | C6 <sub>A</sub> modul 180° jack (12 pcs)           |
| 15091001-I     | OpDAT modul ST OS2                                 |
| 15091071-I     | OpDAT modul LC-Duplex OS2                          |
| 15091072-I     | OpDAT modul LC-Duplex OM3                          |
| 15091075-I     | OpDAT modul LC-Duplex OM4                          |
| 15091076-I     | OpDAT modul LC-Duplex APC OS2                      |
| 1509107B-I     | OpDAT modul LC-Duplex MM                           |

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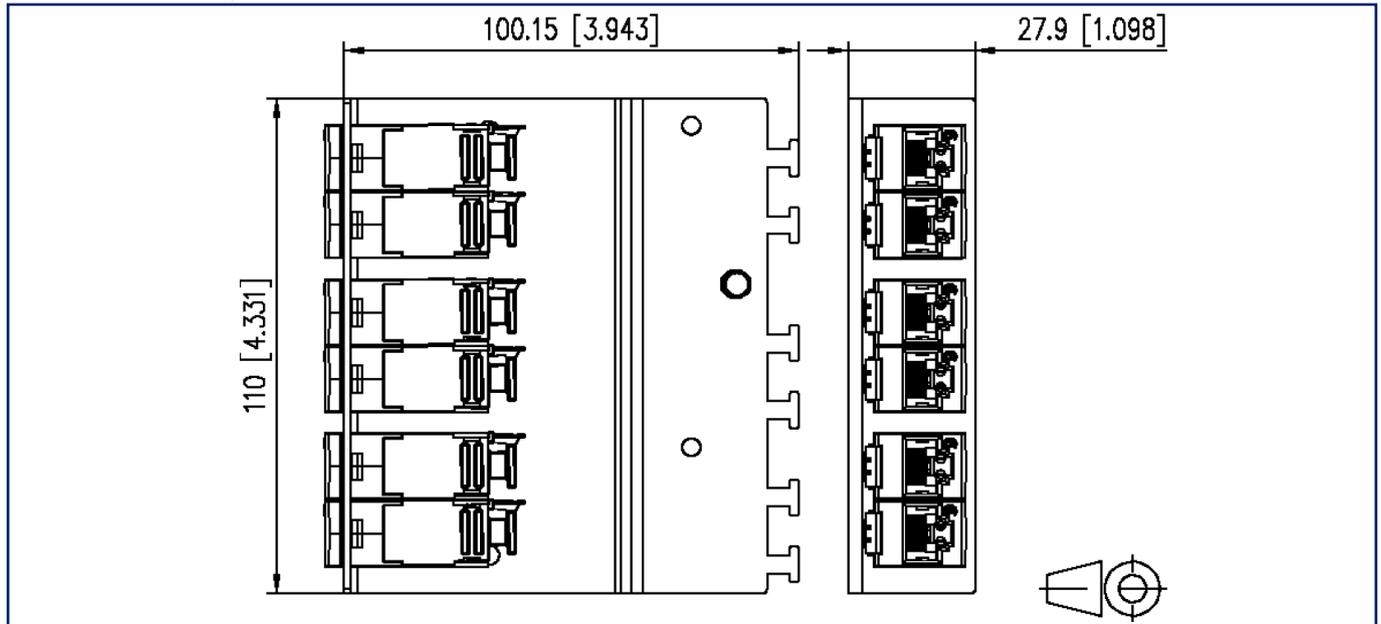
### Accessories from

| P/N          | Designation  |
|--------------|--|
| 1308990110-E | DIN rail adapter                                   |
| 130B10E2-E   | Module frame 3RU, 7HP 6 port, aluminum, unequipped |
| 854544-E     | Module frame 1RU 19 inches, unequipped             |
| 854568-E     | Module frame 10 inches 1RU                         |

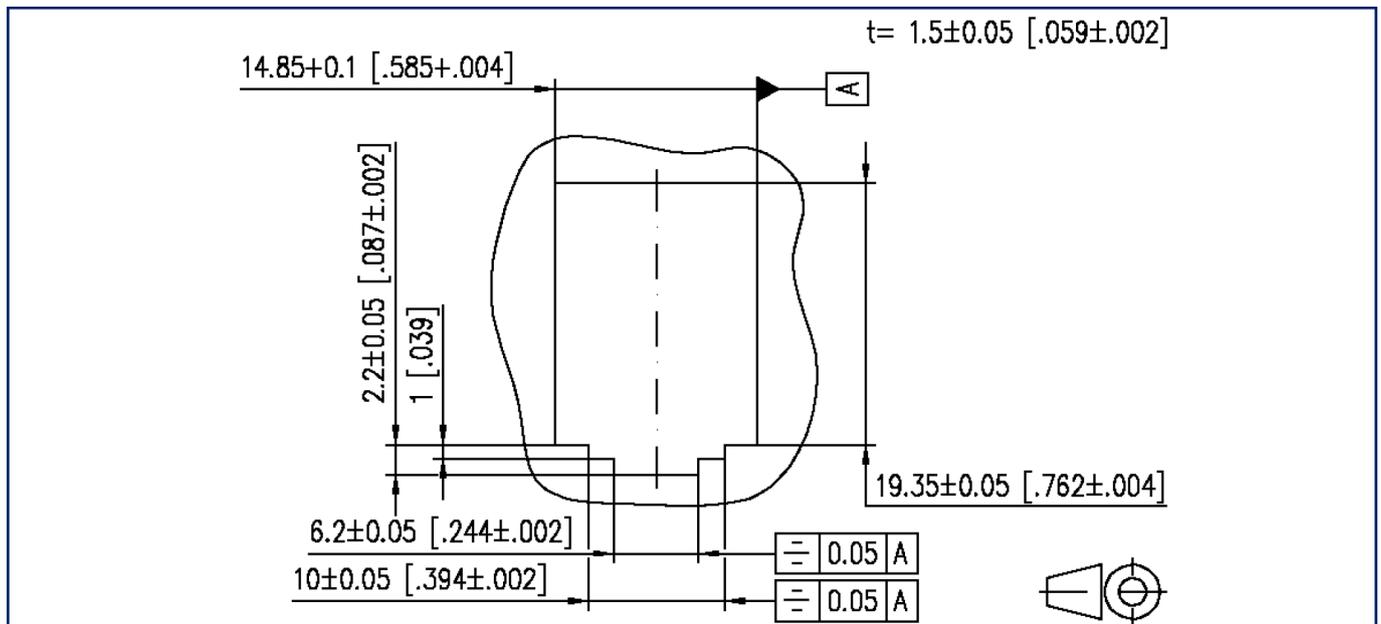


## Illustrations

Dimensional drawing



Cut-out



**Illustrations**

Wiring diagram

