H-1158 Budapest, Késmárk str. 7/A
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## Product Configuration Options

| | |
|---|---|
| **OrderCode:** | IED-EP+/DTVA/E1-Line_H/E33014110010-D10271700100000-41 |

| | | |
|---|---|---|
| **Platform:** IED-EP+<br>EuroProt+ platform | **Type:** DTVA<br>Transmission line protections | **Configuration:** E1-Line_H<br>HV distance protection in 42HP rack size.<br>(Numbers of binary I/O in the standard configuration: 8BOut, 12BIn.) |

**Platform specific options**

| Position | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value | E | 3 | 3 | 0 | 1 | 4 | 1 | 1 | 0 | 0 | 1 | 0 |

**Config specific options**

| Position | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value | E | 1 | 0 | 2 | 7 | 1 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |

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**Detailed platform specific options**

| **Platform version** | **Position 0** |
|---|---|
| Current version | E |
| **Power Supply** | **Position 1** |
| 24V | 0 |
| 48V | 1 |
| 60V | 2 |
| 110V | 3 |
| 220/230V | 4 |
| **I/O modules** | **Position 2** |
| 24V | 0 |
| 48V | 1 |
| 60V | 2 |
| 110V (125V) | 3 |
| 220V | 4 |
| 110VAC | 5 |
| 230VAC | 6 |
| **Mounting methods** | **Position 3** |
| Rack | 0 |
| Flush mounting | 1 |
| Wall mounting | 2 |
| Semi-flush | 3 |
| IP54 rated mounting | 4 |

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|---|---|
| Wall mounting with terminals | 5 |
| No mounting | 6 |
| Fold-down mounting | 7 |
| Fold-down mounting with terminals | 8 |
| **CPU first communication port** | **Position 4** |
| N/A | 0 |
| Fiber optical Ethernet MM/ST | 1 |
| Fiber optical Ethernet MM/LC | 2 |
| Fiber optical Ethernet SM/FC | 3 |
| RJ-45 Ethernet | 4 |
| 2xMM/LC with PRP/HSR | 5 |
| 2xSFP with PRP/HSR | 6 |
| 2xRJ-45 with PRP/HSR | 7 |
| 2xSFP without PRP/HSR | 8 |
| 2xMM/LC without PRP/HSR | 9 |
| **CPU secondary communication port** | **Position 5** |
| N/A | 0 |
| Fiber optical Ethernet MM/ST | 1 |
| Fiber optical Ethernet MM/LC | 2 |
| Fiber optical Ethernet SM/FC | 3 |
| RJ-45 Ethernet | 4 |
| Serial POF | 5 |
| Serial glass fiber | 7 |
| RS-485/422 | 8 |
| **Front panel communication port** | **Position 6** |
| RJ-45 | 1 |
| **LCD size** | **Position 7** |
| N/A | 0 |
| 3.5 | 1 |
| 5.7 | 2 |
| **IEC61850 protocol (additional charge)** | **Position 8** |
| No | 0 |
| Yes | 1 |
| **Customization service (additional charge)** | **Position 9** |
| No | 0 |

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|---|---|
| Yes | 1 |
| **CyberProtect functionality** | **Position 10** |
| No | 1 |
| Yes | 2 |
| **Secondary language** | **Position 11** |
| None | 0 |
| HUN | 1 |
| GER | 2 |
| RUS | 3 |
| ITA(N/A) | 4 |
| FRA | 5 |
| ROU | 6 |
| ESP | 7 |
| **Detailed config specific options** | |
| **Configuration version** | **Position 0** |
| Current version | D |
| **Type of Power Supply module** | **Position 1** |
| PS | 1 |
| PSTP (inc.2xTRIP) | 2 |
| PS+1030 / PS+1060 | 3 |
| PSTP (2xTRIP, no TCS) | 4 |
| PS+/2161 | 5 |
| PS+/2164 | 6 |
| PS+/2130 | 7 |
| **I/O module in position B (42HP)** | **Position 2** |
| N/A | 0 |
| O8 | 1 |
| O12 | 2 |
| O12+2101 | 3 |
| O15 | 4 |
| O6R5 | 5 |
| R4 | 6 |
| R8+00 | 7 |
| R8+80 | 8 |
| R8+C0 | 9 |

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|---|---|
| R12+0000 | 10 |
| R12+4000 | 11 |
| R12+4400 | 12 |
| RTD | 13 |
| AIC | 14 |
| ATO | 15 |
| 4xTRIP | 17 |
| O9S+BNC | 19 |
| O9S+MM/ST | 20 |
| **I/O module in position C (42HP - O12)** | **Position 3** |
| N/A | 0 |
| O8 | 1 |
| O12 | 2 |
| O12+2101 | 3 |
| O15 | 4 |
| O6R5 | 5 |
| R4 | 6 |
| R8+00 | 7 |
| R8+80 | 8 |
| R8+C0 | 9 |
| R12+0000 | 10 |
| R12+4000 | 11 |
| R12+4400 | 12 |
| RTD | 13 |
| AIC | 14 |
| ATO | 15 |
| 4xTRIP | 17 |
| O9S+BNC | 19 |
| O9S+MM/ST | 20 |
| **I/O module in position D (42HP - R8)** | **Position 4** |
| N/A | 0 |
| O8 | 1 |
| O12 | 2 |
| O12+2101 | 3 |
| O15 | 4 |

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|---|---|
| O6R5 | 5 |
| R4 | 6 |
| R8+00 | 7 |
| R8+80 | 8 |
| R8+C0 | 9 |
| R12+0000 | 10 |
| R12+4000 | 11 |
| R12+4400 | 12 |
| RTD | 13 |
| AIC | 14 |
| ATO | 15 |
| 4xTRIP | 17 |
| O9S+BNC | 19 |
| O9S+MM/ST | 20 |
| **I/O module in position E (42HP - TRIP)** | **Position 5** |
| N/A | 0 |
| O8 | 1 |
| O12 | 2 |
| O12+2101 | 3 |
| O15 | 4 |
| O6R5 | 5 |
| R4 | 6 |
| R8+00 | 7 |
| R8+80 | 8 |
| R8+C0 | 9 |
| R12+0000 | 10 |
| R12+4000 | 11 |
| R12+4400 | 12 |
| RTD | 13 |
| AIC | 14 |
| ATO | 15 |
| 4xTRIP | 17 |
| 4xTRIP (no TCS) | 18 |
| O9S+BNC | 19 |
| O9S+MM/ST | 20 |

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| I/O module in position F (42HP) | Position 6 |
|---|---|
| N/A | 0 |
| O8 | 1 |
| O12 | 2 |
| O12+2101 | 3 |
| O15 | 4 |
| O6R5 | 5 |
| R4 | 6 |
| R8+00 | 7 |
| R8+80 | 8 |
| R8+C0 | 9 |
| R12+0000 | 10 |
| R12+4000 | 11 |
| R12+4400 | 12 |
| RTD | 13 |
| AIC | 14 |
| ATO | 15 |
| 4xTRIP | 17 |
| O9S+BNC | 19 |
| O9S+MM/ST | 20 |
| **I/O module in position G (42HP)** | **Position 7** |
| N/A | 0 |
| O8 | 1 |
| O12 | 2 |
| O15 | 4 |
| O6R5 | 5 |
| R4 | 6 |
| R8+00 | 7 |
| R8+80 | 8 |
| R8+C0 | 9 |
| R12+0000 | 10 |
| R12+4000 | 11 |
| R12+4400 | 12 |
| RTD | 13 |
| AIC | 14 |

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|---|---|
| ATO | 15 |
| 4xTRIP | 17 |
| O9S+BNC | 19 |
| O9S+MM/ST | 20 |
| **CT module** | **Position 8** |
| CT+5151P | 4 |
| CT+5153P | 5 |
| CT+5115P | 6 |
| **CT terminal type** | **Position 9** |
| Conventional | 0 |
| Ring-lug | 1 |
| **VT terminal type** | **Position 10** |
| Conventional | 0 |
| **Binary signal transmission (42HP)** | **Position 11** |
| N/A | 0 |
| CPU PB - MM/ST (0-2km) | 1 |
| CPU PB - SM/FC (0-50km) | 2 |
| CPU PB - SM/FC (10-120km) | 3 |
| 2xDir COM - SM/FC (0-50km) | 4 |
| 2xDir COM - SM/FC (10-120km) | 5 |
| 3xDir COM - MM/ST (0-2km) | 6 |
| 3xDir COM - SM/FC (0-50km) | 7 |
| 3xDir COM - SM/FC (10-120km) | 8 |
| G.703 | 9 |
| **Busbar protection sub-unit** | **Position 12** |
| No | 0 |
| Yes | 1 |
| **SW option** | **Position 13** |
| N/A | 0 |