

## MAIN FEATURES

### RUGGED ENCLOSURE FOR 100 X 160 MM CARDS

ELOS is an embedded rugged system platform for a wide range of applications. The concept is based on modular building blocks that a customer specific configuration can be built in no time.

- › Enclosure for 3 slots for 100 x 160 mm cards with passive or active cooling
- › CPCI serial backplane with 2 or 3 slots
- › Power supply for railway, automotive or industrial application with wide input range
- › Several CPU units and a wide range of peripheral cards

### RUGGED ENCLOSURE ELOS



## SPECIFICATION ENCLOSURE

### Enclosure

|             |  |                            |
|-------------|--|----------------------------|
| Material:   | Extruded aluminum                                  |                            |
| Dimensions: | Profile:   | 260 x 73 x 150.5 mm        |
|             | Mounting flange:                                   | 260 x 190.5 mm             |
|             | Mounting holes:                                    | 7 x 5.5 mm, 229 x 170.5 mm |
| Card Cage:  | 3 slots, 3 IEEE card guides for cards 100 x 160 mm |                            |

| Part Number | Nomenclature | Description                                      |
|-------------|--------------|--|
| 125106      | ELOS-E1      | Enclosure closed, passive cooling                |
| 125133      | ELOS-E2      | Louver on both sides, free airflow               |
| 125134      | ELOS-E3      | Louver on both sides, forced airflow with 1 fan  |
| 125273      | ELOS-E4      | Louver on both sides, forced airflow with 2 fans |
| 125233      | ELOS-P0      | Rear plate without any whole                     |

### Crate (enclosure incl. backplane)

The ELOS enclosure is available with 2 different CPCI Serial backplanes.

|                   |  |
|-------------------|--|
| 2 slot backplane: | System slot is in the center with 1 peripheral slot (P1, P2, P6)<br>A mezzanine card for CPU boards can be used                |
| 3 slot backplane: | System slot is on top with 2 peripheral slots (P1, P2, P6)<br>Heatspreader on CPU with contact to the enclosure is recommended |

| Part Number | Nomenclature | Description   |
|-------------|--------------|---|
| 125042      | ELOS-E1S3    | Enclosure closed, passive cooling, 3 slot backplane               |
| 125274      | ELOS-E2S3    | Louver on both sides, free airflow, 3 slot backplane              |
| 125276      | ELOS-E3S3    | Louver on both sides, forced airflow with 1 fan, 3 slot backplane |
| 125275      | ELOS-E2S2    | Louver on both sides, free airflow                                |
| 125230      | ELOS-E3S2    | Louver on both sides, forced airflow with 1 fan, 2 slot backplane |

### Crate (enclosure incl. backplane and PSU)

Several Power Supplies for different applications are available that fit into the ELOS concept

#### Railway applications

|                         |   |
|-------------------------|---|
| Operating input voltage | 14 to 154 VDC                                       |
| Output voltage          | 12 VDC  |
| Output power            | $P_{nom} = 40 \text{ W}$ ; $P_{max} = 50 \text{ W}$ |
| Certification           | EN50155, EN45545-2 (for complete system)            |

#### Automotive and industrial applications

|                         |   |
|-------------------------|---|
| Operating input voltage | 10 to 36 VDC, optional 19 to 75 VDC                 |
| Output voltage          | 12 VDC  |
| Output power            | $P_{nom} = 60 \text{ W}$ ; $P_{max} = 70 \text{ W}$ |
| Certification           | CE  |

| Part Number | Nomenclature | Description  |
|-------------|--------------|--|
| 125231      | ELOS-E1S3P1  | Enclosure closed, passive cooling, 3 slot backplane, input voltage: 14 to 154 VDC , $P_{nom} = 40 \text{ W}$ ; $P_{max} = 50 \text{ W}$                      |
| 125232      | ELOS-E3S3P3  | Louver on both sides, forced airflow with 1 fan, 3 slot backplane, input voltage 10 to 36 VDC, $P_{nom} = 60 \text{ W}$ ; $P_{max} = 75 \text{ W}$           |
| 125250      | ELOSE3S2P3   | Louver on both sides, forced airflow with 1 fan, 2 slot backplane, PSU; $U_{nom} = 12 \text{ V}$ ; 24 V, $P_{nom} = 60 \text{ W}$ ; $P_{max} = 75 \text{ W}$ |

### System solutions

The ELOS modular systems with the different building blocks allow configuring nearly every system solution for your application. The following configurations are only examples that have been realized and qualified.

| Part Number | Nomenclature | Description  |
|-------------|--------------|--|
| 125082      | Railsys-5401 | Eurocom600 Baytrail CPU E3845, 4 GB RAM, SD1 with 32 GB 2½" SSD, SP4 with CAN Adapter, passive cooling, 3 slot CPCI serial backplane |
| 125271      | ELOS-SC5     | SC5-Festival, Xeon E3 1505M-V6, 8 GB RAM, SD4 with M.2 SSD RAID Controller, active cooling with 2 slot CPCI serial backplane         |

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