

## Tactical Data Set for MANPADS battery

MLV3213

CSA352

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### Mission:

Tactical Data Set of the MANPADS battery commander consists of hardware and software package in order to fulfil the following tasks:

- Improvement of combat capabilities and fire control effectiveness
- Data exchange between the commander and higher echelon within a battlefield tactical range
- Voice communication
- Display of air situation within the area of interest
- Increased probability of target acquisition
- MANPADS position determining and reporting to higher echelon
- MANPADS azimuth determination

### Commander equipment consists of:

- Commander Tactical Data Terminal (TDT) of GETAC CA35 series, ruggedized control computer with touch-screen display designed for operation in adverse weather conditions and withstanding the worst shocks and vibrations
- GPS receiver with RS232 interface connected to TDT
- VHV radiostation (RF 13)
- Radio modem (MD 13) with RS232 interface for data transfer to TDT
- VHF/UHF hand-held radiostation (GP 300 MOTOROLA)
- Support equipment (e.g. storage battery chargers for TDT and GPS)

### Commander equipment allows for:

- MANPADS positioning via GPS
- MANPADS position data transfer to higher echelon
- Real-time data receipt, processing and display of:
  - Air picture within the area of interest
  - Target assigned
  - Orders and messages
- Calculation of a predicted target position and firing parameters
- Data exchange between MANPADS commander and higher echelon
- Support to the commander decision-making process
- Maps and supplementary information display at TDT
- Log files creation with a record of:
  - assigned targets
  - messages/orders
  - MANPADS status changes
- Log/history files handling for
  - replay in electronic form
  - hardcopy printing

### TDT major parameters:

- |                       |                              |
|-----------------------|------------------------------|
| ▪ Resolution          | 800 x 600                    |
| ▪ Dimensions (cm)     | 33,1 x 29,3 x 4,7            |
| ▪ Weight              | 3,7 kg                       |
| ▪ Temperature range:  |                              |
| - operational         | -20°C to 50°C                |
| - storage             | -40°C to 70°C                |
| ▪ Relative humidity   | 5 % to 95 % (non-condensing) |
| ▪ Shock load          |                              |
| - in operation        | 15g for 11 ms                |
| - out of operation    | 70g for 11 ms, 0.5 sine      |
| ▪ Fall withstanding   | up to 0,915 m height         |
| ▪ Class of protection | IP 51                        |

