

# Army Command, Control, Communications and Intelligence (C3I) Systems

C3I systems allow high-speed processing of reconnaissance data from various reconnaissance sensors used for operational command of large military units. The C3I systems provide a continuous detailed display of the tactical situation.

The command phases – determination of tactical situation, planning, commanding and control – are accelerated and the quality of information is improved considerably.

Tactical situations, commands, messages and alarms are transmitted quickly and without errors, digitized terrain maps are displayed on high-resolution color screens.

The screenshot displays a complex user interface for a C3I system. On the left, a topographic map shows tactical elements with labels like 'Schloß', 'Ziegelhof', 'Ried', 'Fälgraben', and 'Mögg'. To the right of the map is a grid of 'information fields' containing various icons. Below the map is a 'main function menu' with buttons for 'Stab', 'OK', 'M', 'I', 'mod.', and 'OK'. On the far right, a vertical stack of menu sections includes 'alarm menu', 'variable menu fields', 'store menu field', and 'information field'. The 'alarm menu' has buttons for 'Alarm', 'Feuerplan', and 'Sperrplan'. The 'variable menu fields' section includes 'Farbe', 'TEXT', and 'Notiz'. The 'store menu field' has 'A', 'B', and 'Notiz'. The 'information field' section includes 'Alarm', 'Befehl', 'Meldung', 'L:', 'Bit', and 'kein Sensor'.

This Army Command and Control Equipment assists commanders in their tasks associated with vehicle navigation and information exchange on a battalion level.



Messages of different types and origin are automated and continuously updated on digitized maps.

ATM's platform for C3I systems is our ruggedized notebook **COMMANDER**.

The C3I system runs under the operating system Windows NT which is required in the German GeFüSys command and control system.

For showing the exact own position on digitized terrain maps our C3I system uses the GPS and compass information from the vehicle, or an integrated GPS receiver, optionally with an external vehicle antenna or miniature antenna at the notebook as well as an electric compass.

The C3I system use for the subnet connections (e.g. German VHF radio equipment) the ATM communication processor KM1 which is integrated in the **COMMANDER**.

The **COMMANDER** is characterised by its efficiency, environmental resistance and scalability. The highlights are:

- Pentium® II processor
- Temperature independent processor performance
- 15" TFT display
- Power management
- Battery management
- IP class 54
- Extended temperature range
- Individual configuration
- Individual connector plate
- Bus Interfaces: ISA, PCI, USB



The **COMMANDER**, as a portable version, is optimally suited for outdoor applications under harsh environmental conditions. However, it can also be firmly installed in a vehicle by means of an installation set.

The **COMMANDER** is already use in the following projects:

- GeFüSys
- FÜUGv
- DTA (data transmission/ display unit for the Phantom F-4F)
- FGR Gehoc
- FÜVN

In this projects the commander is integrated in different vehicles as:

- M113
- TPz Fuchs
- WOLF



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