

200-MG, 201-W, 202-W, 203-W LONG RANGE MISSILE DATA LINK SYSTEM #MilitaryCommunication



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200-MG, 201-W, 202-W, 203-W LONG RANGE MISSILE DATA LINK SYSTEM

GÜDÜ Long Range Missile Data Link System is an integrated subsystem consisting of Missile Data Link Unit, Ground Data Link Unit and Data Link Crypto Key Generator. GÜDÜ Long Range Missile Data Link System has been developed under the program of SIPER Air Defence System. The main purpose of missile data link communication is to increase the probability of kill with the help of mid-course guidance.

Missile data link system provides;

• Transmitting of missile location, missile engagement status, missile health status etc. information to the control centers,

• Transmitting of target information, target timestamp, missile location, missile location timestamp, missile self-destruction command, engagement commands which are provided by the system to the missile platform for the mid-course guidance.

Technology

There are 3 main components of the system.

Missile Data Link Unit (MDLU) is responsible for exchanging the related data between ground system and the missile platform during the mission.

Ground Data Link Unit (GDLU) is located on Ground/Naval Platform, with active phased array antenna architecture consisting of modem, crypto module, RF unit and antenna. GDLU consists of 4 identical subunits.

Data Link Crypto Key Generator Unit (DLCKGU) is located on missile launch system to generate encryption/decryption data for communication during the mission.

General Specifications

- Communication range up to 200 km
- Bi-directional communication with up to 20 missiles
- High speed pseudo random frequency hopping capability
- Embedded encryption
- Electronic warfare resistant, robust waveform design
- Dynamic network management
- Low latency waveform design
- Built-in-Test Capability
- 360° azimuth coverage with 4 GDLU

- GDLU design based on Active Electronically Steered Phased Array
- Antenna Technology
- Low SWAP-C hardware design based on mechanical limitations of the missile
- Hardware design compatible to harsh environmental conditions of the missile
- Antenna design according to aerodynamical conditions of the missile
 - Conformal antenna
 - Open ended waveguide antenna
 - Blade antenna

Technical Specifications

•	Communication Range	: <200 km
•	Operating Frequency	: C Band
•	MDLU Power Interface	: 22-34 VDC
•	GDLU Power Interface	: 28 VDC (MIL-STD-1275)
•	Environmental Conditions	: MIL-STD-810G
•	GDLU Operating Temperature	: -32°C to +63°C
•	GDLU Storage Temperature	: -33°C to +71°C
•	EMI/EMC	: MIL-STD-461E

Physical Specifications

GÜDÜ 200-MG

Dimensions	: 40x40x40 cn
Weight	: 27 kg

GÜDÜ 201-W

Dimensions	: 180 mm diameter x 45 mm height
Weight	: < 1.5 kg

: < 4 kg

: < 1 kg

: 160 x 110x 70 mm

: 145 x 115x 45 mm

GÜDÜ 202-W

- Dimensions
- Weight

GÜDÜ 203-W

- Dimensions
- Weight



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