

# KETUM

ENCRYPTED POLICE RADIO AND  
COMMUNICATIONS SYSTEM

#PublicSafetyCommunication



aselsan

# KETUM

## ENCRYPTED POLICE RADIO AND COMMUNICATIONS SYSTEM

### Encrypted National Dmr-Trunk Public Safety Communications System

The Encrypted Police Radio and Communications System (KETUM) ensures radio communication for the General Directorate of Police (EGM), enabling rapid and secure operations for services such as public order, traffic, counter-terrorism, and combating smuggling and organized crime. The KETUM project began in 2011 with the establishment of the system in the Eastern and Southeastern provinces and is being gradually expanded across the entire Türkiye.

### Private Communications Infrastructure Developed For EGM

Through the system infrastructure, inquiries such as identity, vehicle registration, and license plate from the EGM database are carried out. Security and public order services are effectively maintained via software like Radio Call Tracking, Messaging, and Vehicle Tracking with the KETUM system center servers in the provinces.

### 24/7 Uninterrupted Communications, Reliable, Fast and Unaffected By Natural Disasters

KETUM base stations are designed to withstand adverse conditions in extraordinary situations such as natural disasters and terrorist attacks. The earthquake resilience and wind load capacity of the towers established for radio and radiolink antennas, the conformity of concrete structures to necessary standards, the provision of suitable climate control and waterproofing for the containers housing communication devices, and the strong energy infrastructure provided by units like generators and uninterruptible power supplies ensure the seamless operation of the KETUM system under extraordinary conditions.

### High capacity coverage area in densely populated centers

Given the responsibility area of the Turkish Police Force, ensuring radio coverage in provincial and district centers as well as highways between these centers is of great importance. KETUM provides an effective coverage area with a high number of base stations and capacity in central locations, allowing many users to communicate simultaneously.

### DMR Trunking System (Tier 3) Ensuring Frequency Efficiency

KETUM ensures frequency efficiency with TDMA-based DMR Tier III Trunking technology and allows the creation of a large number of communication groups for the user. With this capability, KETUM is a powerful task partner for EGM, which has the most users in Public Safety Communications Systems in Türkiye.

### Pioneer System Using Next-Generation Radios

The products of the ASTELA 3700 Series DMR Radio Family, developed by ASELSAN, were used for the first time in Türkiye in the KETUM project. The ASTELA DMR3710 Handheld Radio, designed to meet the needs of the Turkish Police with its mechanical design, ergonomics, and user-friendly interface, has quickly become widely used and an indispensable element in the communication of security forces.

### Türkiye's First Broadband Public Safety Communication System

Within the scope of KETUM, a Mission Critical LTE system providing broadband services in addition to the narrowband BiGA DMR Trunking system was established in Adana (BiGA DMR LTE). Thus, for the first time, broadband technology will be used in a Public Safety Communications System in Türkiye. The radio access network of the system will feature the ARNa 700 MHz Base Station and the HYBRA 3810 Hybrid Handheld Terminals. In the switching core network, the fully nationally developed ÇINAR (4.5G Core Network) and MİLAT Network Management and Analysis software will be used. With these features, the Adana BiGA DMR LTE system incorporates many firsts and innovations and will be the cornerstone of Türkiye's public safety.

Specifications are subject to change without any notice. | All tolerances are within  $\pm 10\%$ .