CHAMELEON™
TACTICAL SIGNAL EMULATOR SYSTEM
ASELSAN’s Tactical Signal Emulator CHAMELEON radiates signals in radio frequency (RF) communication band by programming the parameters such as channel spacing, modulation type, tone/code, RF output power level. By the utilization of these capabilities, CHAMELEON is capable of emulating most of civilian/military type radios.

CHAMELEON can be used as an arbitrary waveform generator or programmable noise generator. It has the ability to generate both Electronic Warfare (EW) waveforms and civilian communication waveforms with a single waveform generator.

Optionally it can be used for C-IED Applications such as route clearance (by pre-detonation of RCIEDs).

Another application area that CHAMELEON Tactical Signal Emulator can be used is testing a large number of communication and communication jamming systems.

### Technical Specifications

- **Frequency Band:** 20 MHz-6GHz
- **Number of Channels:** Up to 20
- **Output power (typical):** 10 W per channel
- **Antenna Types:** Omni-directional / Directional antennas for sectoral coverage
- **Modulations:** At least CW, AM, FM, SSB, ASK, BPSK, QPSK, 2FSK, 4FSK
  (CHAMELEON can modulate the carrier signal with tone, dual-tone, multi-frequency, digital code and arbitrary waveform.)
- **Tone:** CTCSS, DCS, DTMF
- **Data Interface:** 10/100/1000 BaseT Ethernet

### Programmability and User Interface Features

- Digital signal generation with high stability and accuracy
- The ability to switch between waveforms at nsec speeds to support transmitters.
- Computer-Controlled Modular System Architecture
- Built-in Test Feature
- Configurable Signal Output via Programming Capability

(Modulation parameters, Scan Parameters, RF Output Power level)

### Environmental Conditions

- Rugged Design
- MIL-STD 810 Compliant
  (Temperature, Humidity, Rain, Dust, Shock & Vibration)