ASELSAN; An Engineering Company

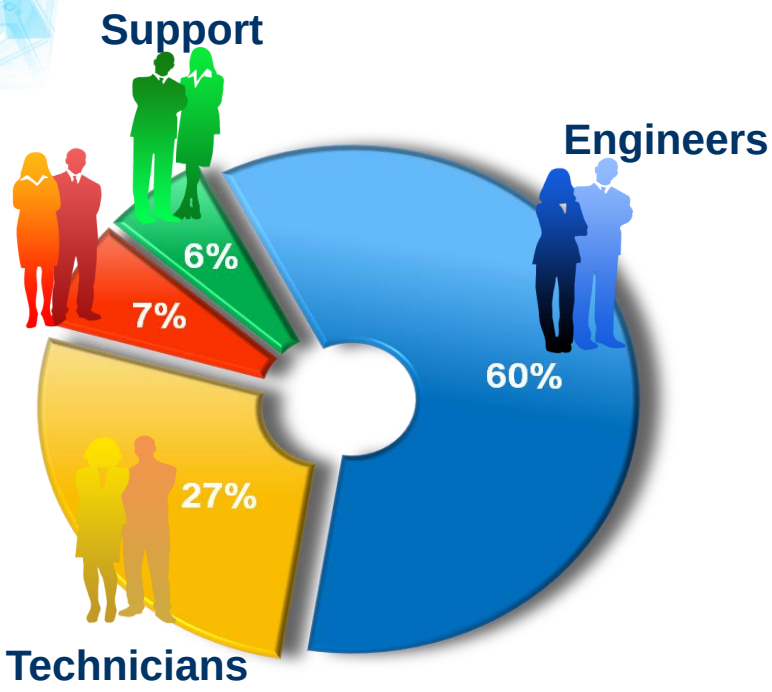
R&D Cooperation with more than 20 Universities

Industry Cooperation 400 Subcontractors

Exports to 47 Countries

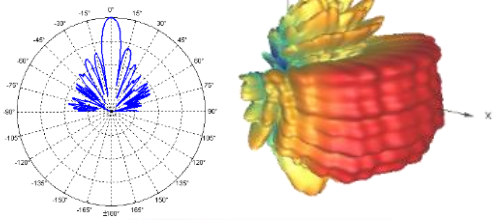
Average 7% of Yearly Turnover

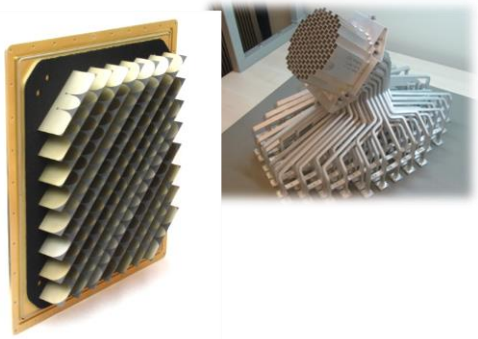
Total Employee : 4626
Engineers : 2719
R&D Engineers : 2241



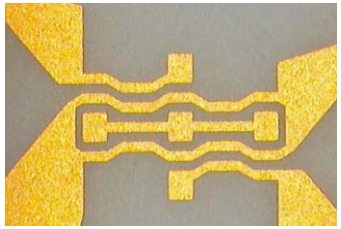
mmWave Capabilities and Products

Antenna/Radom Design





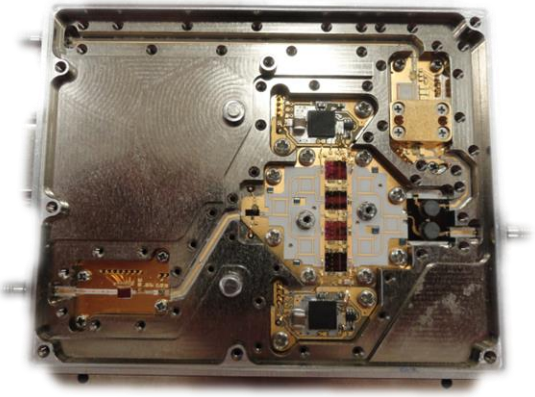
Thin Film Design



mmWave/Microwave Design

mm Wave-active phased array

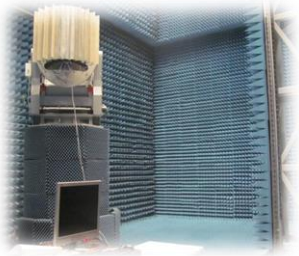
- Wideband
- Steerable
- Polarization Adjustable
- Low Profile



Module Design

Production

Test

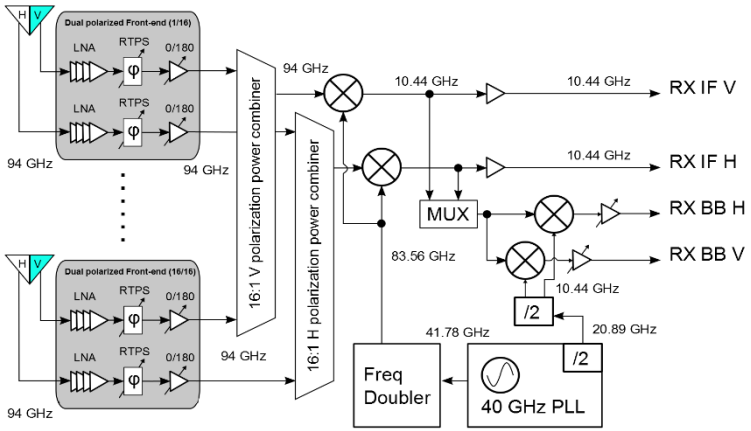


Mechanical Design

Ongoing 5G related projects and collaboration opportunities

- 4-Channel 28 GHz Phased Array Antenna Systems
  - Massive MIMO Antenna system
  - Multi-channel multi-functional SiGe chip
  - Multifunctional GaAs PA MMIC,
  - Millimeter Wave modules integrating antennae and chips
  - Digital control circuitry for beam steering
  - Digital data input

16 Channel, 94 GHz Receiver and Transmitter MMICs



- Eureka Project with VIPER-RF (UK) : A 4-channel 28 GHz SiP Transmitter and Antenna (ongoing)
- Eureka Project with EPFL (Switzerland) : 28 GHz **Ultra Low-Power** Transmit/Receive Front End Design (application in process)

Possible Collaboration Areas

Within the frame work of;

ICT-07-2017 5G PPP Research and Validation of Critical Technologies and System

- Massive MIMO Antenna system
- Multi-channel multi-functional SiGe chip
- Multifunctional GaAs PA MMIC,
- Millimeter Wave modules integrating antennae and chips
- Digital control circuitry for beam steering
- Digital data input
- GAN MMIC DesignPhased array antenna for base stations and backhaul links at 28 GHz
- Phased array antenna for backhaul links at 94 GHz
- Phased array antenna for short range data transmission at 94 GHz