

ARKELINK

COMMUNICATE WHERE OTHERS CAN'T



PROVEN DEFENSE-GRADE CAPABILITY

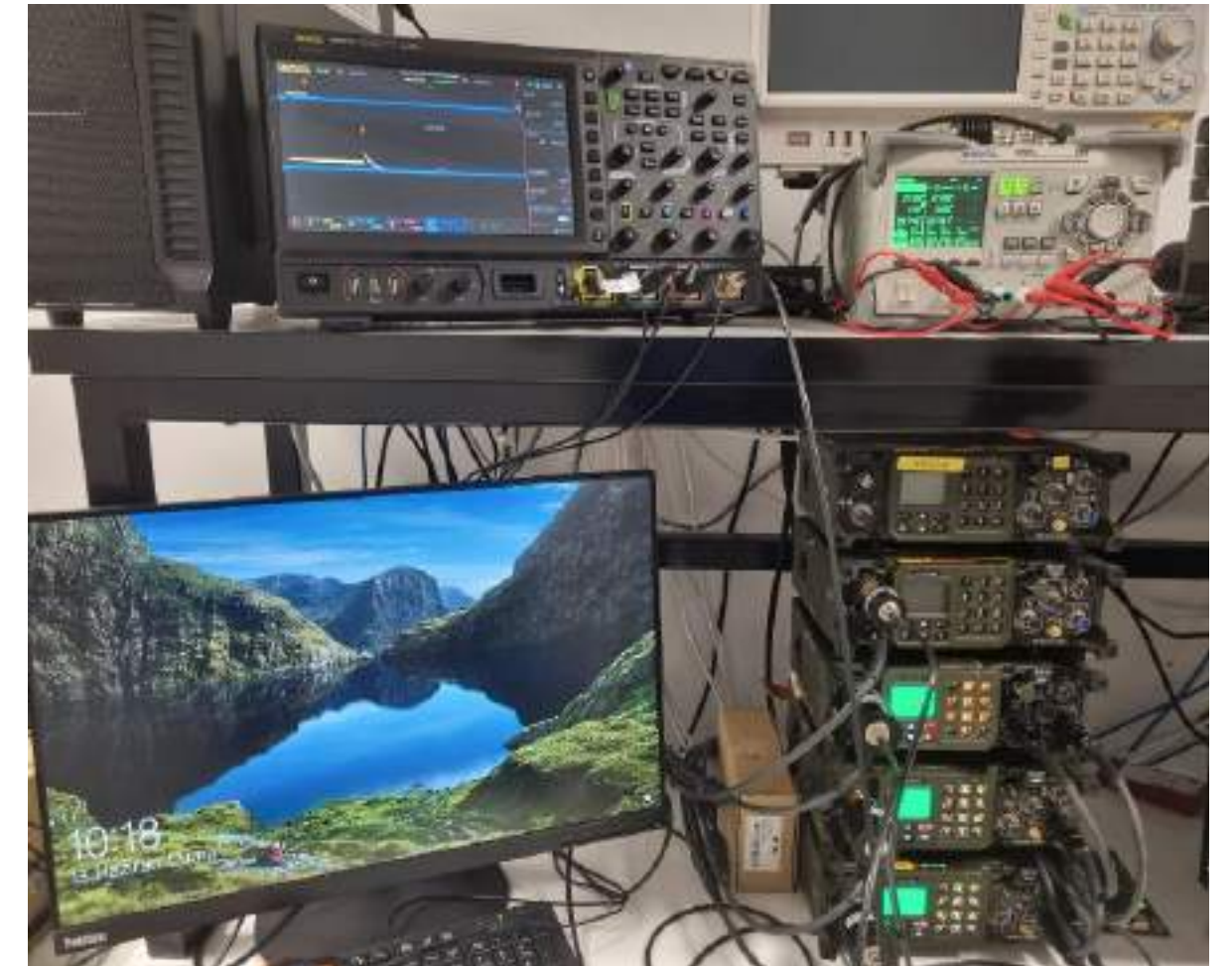
Arke Telekom Waveform Development Laboratory Setups

Military Waveform & Communication Systems Projects

- **NATO UHF SATCOM Waveform Development – ArtCom 800 Radios**
ASELSAN A.Ş. | 2026 – Ongoing
- **V/UHF 9671 Tactical Radios – GBDŞ Modem Code Platform Integration**
ASELSAN A.Ş. | 2024 – 2025
- **Hierarchical Network-Enabled, Scalable Next-Generation Military Waveform**
ASELSAN A.Ş. | 2022 – 2025
- **NATO UHF SATCOM Waveform Development – 9661 V/UHF Radios**
ASELSAN A.Ş. | 2020 – 2025

Consultancy & Embedded Systems Projects

- **Armored Vehicle Engine Test & Control Software**
KAREL – BMC POWER | 2024 – 2025
- **KEMENT Project – Technical Consultancy**
METEKSAN Defence | 2014 – 2015
- **Electronic Card Design & DO-254 FPGA Functional Verification Support**
SDT | 2014 – 2016



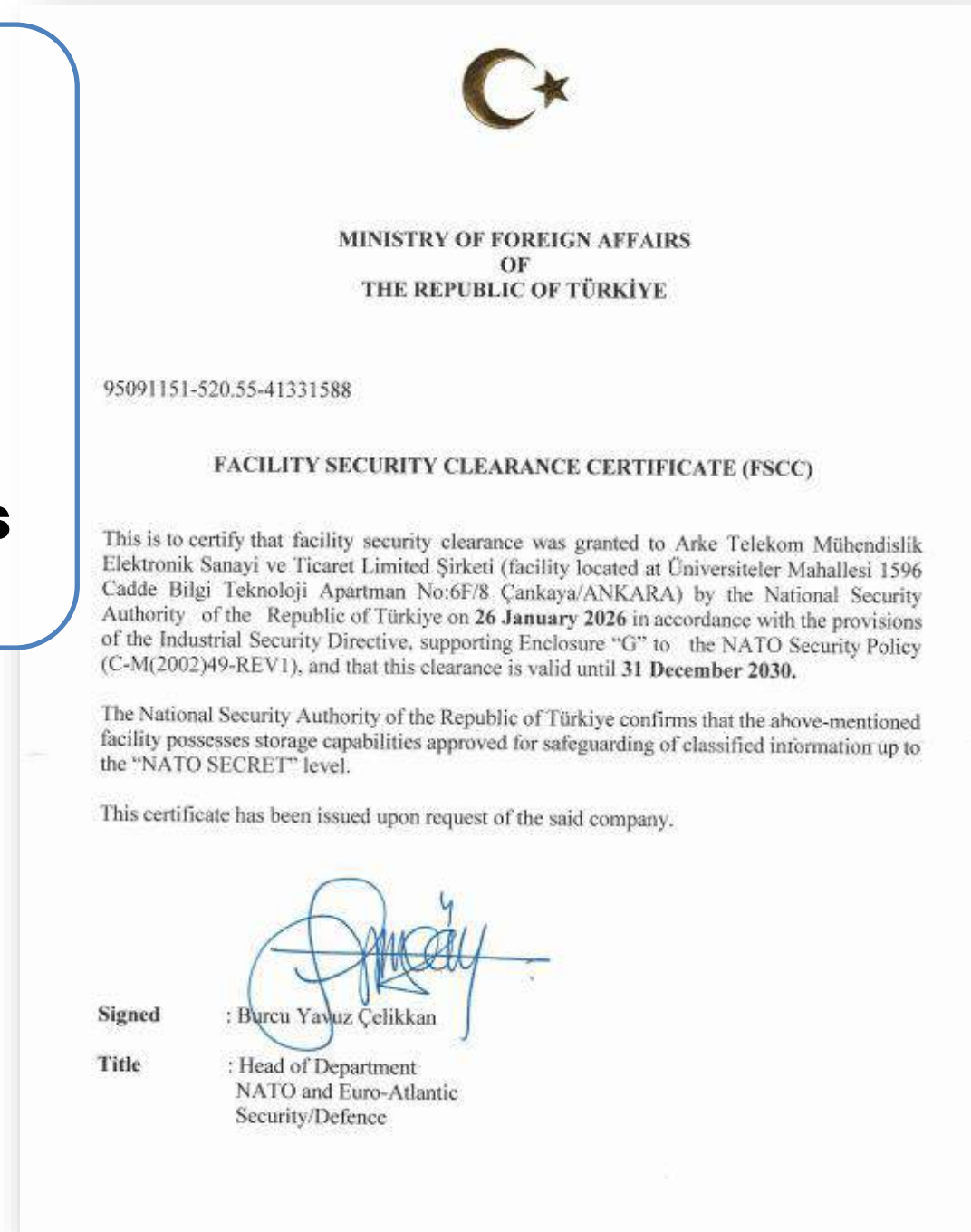
VALIDATED BY NATO & NATIONAL AUTHORITIES

- **ASELSAN** approved Supplier
- **NATO** cleared development and testing facilities
- **EYDEP-B** Certificate



Selected to **NATO DIANA 2026 Cohort**:

- One of **150** companies over **3600** applications from 25 NATO countries
- Only Turkish company accepted to **Advanced Communication Technologies** challenge



NATO DIANA 2026 PROJECT

COMMUNICATE WHERE OTHERS CAN'T

A resilient communication architecture for tactical drones

ArkeLink delivers secure, self-healing mesh communication designed for environments where traditional links fail.

Peace is not a 'given', it takes effort and investment to maintain peace.



TRL-4 / Product Development & Validation



Defense & Tactical Communications

PROBLEM



Unmanned System Proliferation



Limited Military Equipment



Operators Physically Separated From Vehicle



Use of Commercial Products



Critical Dependence on Comm. Links



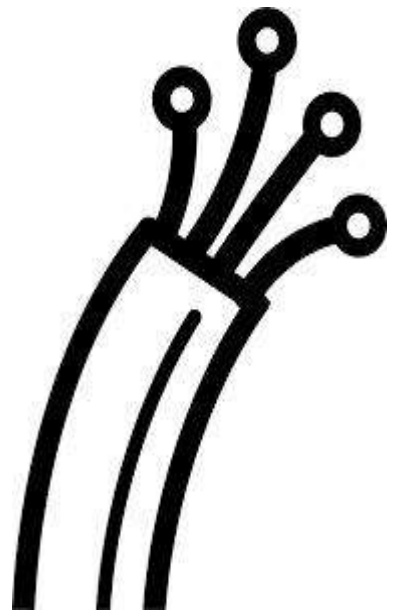
Vulnerability Against Jamming and EMI



MISSION FAIL

WORKAROUNDS

Link Lost Workaround



FIBER TETHERED LINKS

- Range limitation
- Mobility constraints
- Cable Vulnerability
- Operational inflexibility
- Exposure risk



GPS Lost Workaround



FPV DRONES/ HUMAN CONTROL

- Full dependence on continuous video link
- High operator cognitive load
- Limited operational range
- Reduced mission endurance and scalability



SOLUTION

ArkeLink NETWORK CORE

GNSS-Independent

- Network-provided alternative Positioning, Navigation and Timing (PNT) service
 - Distributed clock synchronization

Jamming-Resistant Communications

- Fast Frequency Hopping
 - Wide bandwidth
 - Micro-Net capability
 - Cognitive radio

Self-Healing Mesh Architecture

- Multi-hop multi-node communication
- Enabler for AI-operated drone swarms
- Mesh networking
 - Self-healing MANET
 - Range extension

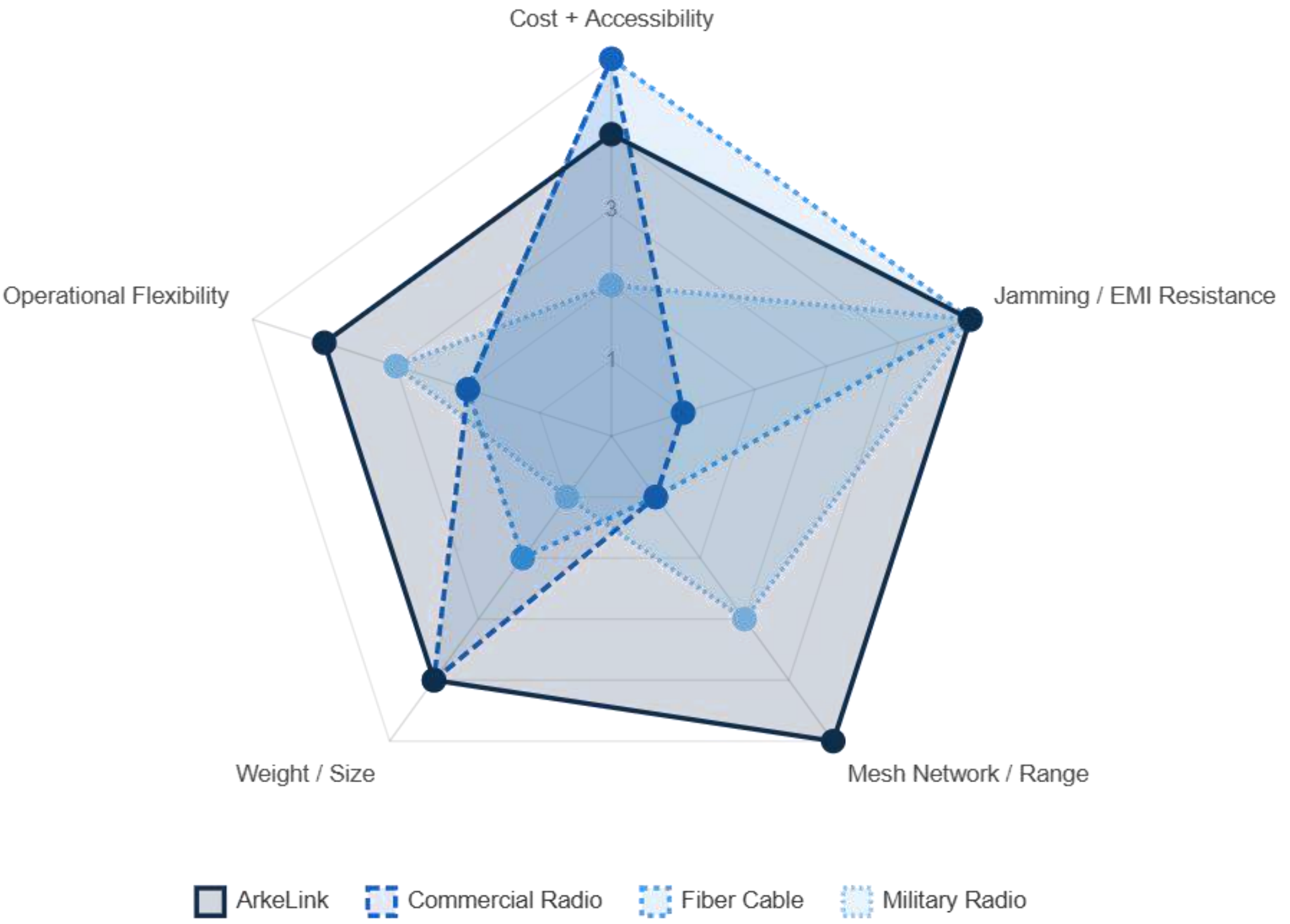


All design & IP owned by Arke Telekom



Waveform validated via Digital Twins

MARKET COMPETITION



ArkeLink



Commercial Radio Links



Fiber Tethered Cables



Military Radios



ROADMAP 36-Month Development Plan | 8 Work Packages

YEAR 1 (M1-12)

Jan 2026 – Dec 2026

ArkeLink Core Development

- Waveform design: network + physical layer (Phase 1)
- Digital Twin + simulation environment
- Prototype modem + RF board design & production
- Prototype RF board design & production
- Early UAV integration (target platform)
- Pre-field tests + captive carry tests
- Business development + investor engagement

MILESTONE

NATO DIANA Demo Day

YEAR 2 (M13-24)

Jan 2027 – Dec 2027

ArkeLink Production Readiness

- Waveform Phase 2 refinement + optimization
- ArkeLink modem + RF board design & production
- Full UAV-integrated field tests
- International + harsh-condition validation
- Initial production: sourcing, assembly, QC
- Customer relations: sales, feedback, delivery
- OEM partnerships + trade show expansion

MILESTONE

First Customer Deliveries

YEAR 3 (M25-36)

Jan 2028 – Dec 2028

Product Family Expansion

- ArkeLite + ArkeLong waveform development
- ArkeLite + ArkeLong board design + production
- Multi-platform UAV integration
- ArkeLite/ArkeLong field + international tests
- Series production ramp-up at scale
- Expanded customer relations + global BD

MILESTONE

Series Production Launch

COLLABORATIONS & POTENTIAL CUSTOMERS

Turkish drone manufacturers have shown strong interest in the product and have offered support for test flights once the prototype is ready. Preliminary technical meetings and information exchanges for integration have started. NDAs and MoUs have been signed.



Government and military institutions are showing strong interest in the project. They have requested company and product presentations, which are currently being shared.



Approached by major defense companies for innovation and support programs. Meetings conducted and additional meetings scheduled.

aselsan



Discussions with venture capital funds have started. Meetings conducted and additional meetings scheduled.



Collaboration and partnership discussions have started with two companies which have been accepted into the DIANA program. NDAs have been signed.



ARKELINK PRODUCT FAMILY

ArkeLite

*Lightweight SDR for
Micro UAVs*

A compact SDR card variant that brings ArkeLink's core MANET and anti-jam capability to lighter platforms.

Unlocking the micro UAS market — where cost, size, weight, and power constraints are critical.

ArkeLong

*Extended Range SDR for
Long Range Operations*

A high range variant built on custom SDR card architecture, optimized for long distance communication links where extended operational radius is the priority.

Multi-Domain

Expansion *UGV & USV
Integration*

Following UAV market establishment, ArkeLink's protocol stack will be adapted for UGV and USV.

Enabling coordinated cross-domain operations between aerial, ground, and maritime unmanned assets under a single resilient mesh network.

CONTACT US

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