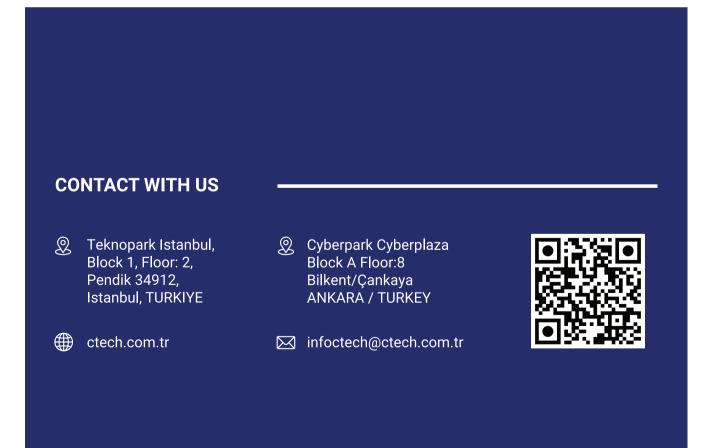
TECHNICAL SPECIFICATIONS

	UfukLink Micro	UfukLink Mini	UfukLink Mini Pro	
General				
Data Rate	Up to 40Mbps	Up to 60Mbps	Up to 100Mbps	
	Note: Depends on RF output power & antenna gains			
Modulation	BPSK/QPSK/16QAM/64QAM	QPSK/16QAM/64QAM/256QAM		
Network Mode	P2P/PTMP (with licence)	MESH Network		
Channel BandWidth	2.5/5/10 MHz 2.5/5/10/20 MHz			
RF Output Power	2x2W/2x4W/2x10W/2x20W			
Communication Distance	Up to 200 Km			
	Note: Under LOS condition and depends on antenna setup			
Encryption	AE128/256			
Anti-Interference	Smart Frequency Selection	Autonomous Fr	equency Hopping	
Frequency Bands				
L Band	1300 - 1500 mHz			
S Band	1800 - 2500 mHz			
C Band	4400 - 6000 mHz			
Environmental				
Operation Temperature	-40°C / +80°C			
Protection Level	IP66/IP67 Customized			
Mechanical				
Size	118 x 62 x 20 mm (2x2W Platform)			
	128 x 110 x 34 mm (2x10W, 2x20W Platform)			
	183 x 1	183 x 154 x 63 mm (2x10W, 2x20W Base)		
Weight		150 gr (2x2W Platform)		
	630 gr (2x10W, 2x20W Platform) 1560 gr (2x10W, 2x20W Base)			
	Note: Freq	requency bands effects on weight and sizes		
Power				
Supply Voltage		12 - 36 VDC		
Power Consumption	2A (r	2A (max) / 0.7A (idle) @ 12V (2x2W)		
	6A (max) / 0.9A (idle) @ 16V (2x10W)		OW)	
	10A (r	max) / 0.9A (idle) @ 20V (2x2	0W)	
Interface				
RF Antenna	2xTNC on Base Models - 2xSMA on Platform Models			
Basic Serial	RS232 / RS	RS232 / RS485 / RS422 / SBUS Support Optional		
Network	10/100 Base Ethernet			















SWARM consept is rapidly emerging. Information sharing between peers is the key. Also in broadband. Based on IP infrastructure. CTech's LOS/nLOS technology combines small units into giants.

MESH network topology provides easily connecting. Directly, dynamically and non-hierarchically. Many nodes can coorporate with one another, to efficiently route data to and from nodes.

With RELAY capability of the radio modems, the operation coverage spreads beyond the Ligth-of-Sight.

None Light-of-Sight performance of the CTech's LOS/nLOS technology can turn impossible missions into success.

BENEFITS

- ✓ Remote Control and Monitoring Autonomous and semi-autonomous vehicles
- ✓ All kind of land, sea, and air mobile platforms
- ✓ MESH topology for SWARM applications
- Extend the operational coverage area with Relay functionality
- ✓ Broadband for High Quality Video Streams
- ✓ Full Dublex, Low Latency, Stream and Control Data
- ✓ SWAP options: Handheld, Airborne, Backpack, Vehicular,..
- ✓ Near and None Ligth-of-Sight
- ✓ Uses Free L, S and C Band.

Many models for many different conditions:

Technical Spects

- L/S/C Bands
- 2x2W / 2x4W / 2x10 W / 2x20W
- Platform / Base Cases
- Up to 100Mbps
- AES 128 / 256
- Video IF (optional)
- Up to 200Km (LoS) depends on antenna setup

- P2P / P2MP • Up to 10MHz BW
- MESH Network
 Up to 10MHz RV
- Up to 10MHz BW
- UFUK linkmini Pr
 - MESH Network
 - Up to 20MHz BW

SWARM

Unmanned surface vehicles encounter very alterable Ligth-of-Sight coverage conditions, whether close to shore, offshore or behind an island. A given RELAY capability to an UAV, connects a MESHed SWARM to the control center. Broadband connection provides to the operators a high quality video streams. As a result small things get together, and overcome big things.

It is the ability of organizing and coordinating between small things that turns them into unmanageable giants.

SWAP OPTIONS

Offering the same features in various size, weight and power options is a key feature to cope with application diversity. Handheld and backpack versions for a soldier to carry. Small size and weight for Drones. High power vehiculars, on air, on land, also on surface.

MESH NETWORK

During an air operation, it is nearly impossible to stay in safe communication with the UAVs that are moving away, approaching, rejoining, or changing locations.

The MESH network capability of the UFUKLink radios easily brings UAVs together. The processes such as breaking away from the group and rejoining it, which develop under operational conditions, occur almost invisibly. The operator does not concentrate on staying together, but on using the power of being together towards the goals of the operation.

NEAR/NONE LOS

While battling the difficulties of the operation on the one hand, it is almost impossible to provide Ligth-of-Sight conditions for communication on the other. The extra value of the NONE Ligth-of-Sight performance, pushes the boundaries between success and the impossible.

LONG RANGE

Tracking Antenna

