

**UMT**

**(3491.TWO)**

**9 / 9 / 2025**

# Disclaimer

- **This material may contain statements regarding future prospects. Such statements are based on expectations of current conditions, but are subject to known or unknown risks or uncertainties. Actual results may differ materially from those expressed.**
- **UMT undertakes no obligation to update any future outlook as a result of new information or future events, unless required by law.**

# UMT (3491.TWO)

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- **Profile : Founded in 1999 / Listed in 2008**
- **Capital : NT\$ 661.7M**
- **Industry : Wireless Communication**
- **Products : Microwave & mm-Wave Components/Antennas**  
Applications: 5G/4G Cellular Backhaul  
Low-Earth Orbit Satellites (LEO)  
**RF Antennas**  
Applications: Cellular BS / WiFi / IoT / Smart Devices / UAV

# Markets/Products: 5G/4G Backhaul

## 5G/4G Cellular Backhaul



**Applications: 5G/4G Cellular Backhaul**

**2024 Rev. Percentage: 23%      1H 2025 Rev. Percentage: 14.8%**

**1H 2025 YoY - 37%**

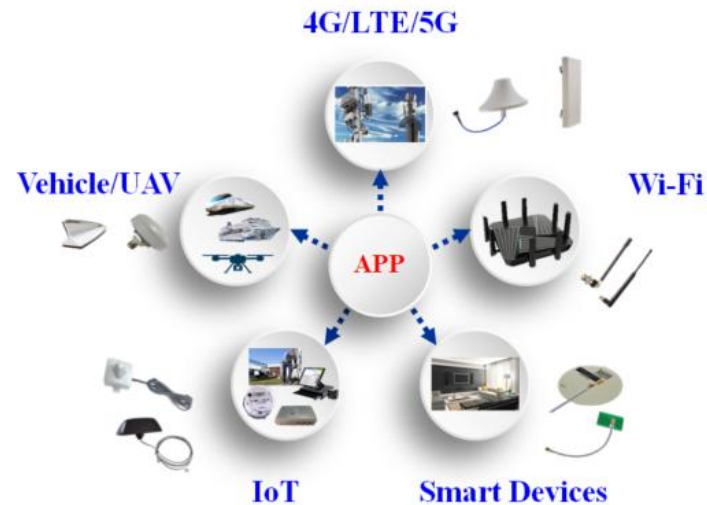
**Customers: Ericsson / Aviat (USA) / Ceragon (Israel) / Huawei**

**Products: Filter / Diplexer / Coupler.....**



# Markets/Products: RF Antennas

## RF Antennas



**Applications: Cellular BS / WiFi / IoT / Smart Devices / UAV**

**2024 Rev. Percentage: 25.2%**

**1H 2025 Rev. Percentage: 24.8%**

**1H 2025 YoY + 1.1%**

**Products:**



# Markets/Products: LEO Satellites

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## LEO Satellites



**Applications: Achieve global coverage via LEO satellites**

**2024 Rev. Percentage: 42.8%      1H 2025 Rev. Percentage: 52.7%**

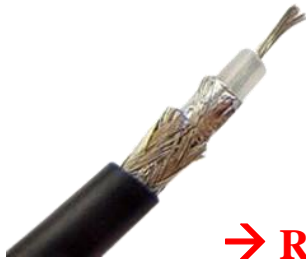
**1H 2025 YoY + 40%**

**Products: Antenna / OMT / Filter / Diplexer .....etc.**

# Products

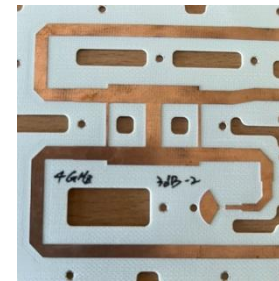
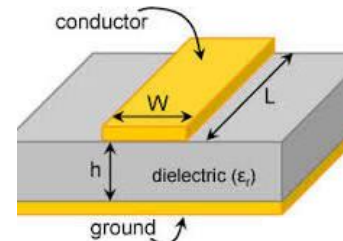
## ■ 3 Types of Transmission Lines: fundamental elements of components

### (1) Coaxial Cable

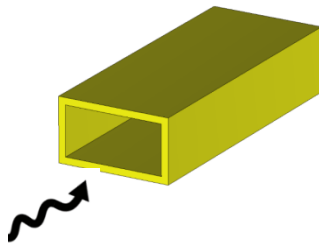


→ **RF Antennas** products are manufactured based on **Cables & PCBs**

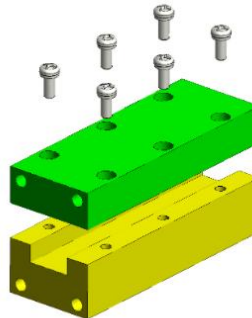
### (2) Printed-Circuit Board (PCB)



### (3) Rectangular Waveguide



**Microwave/mm-wave**



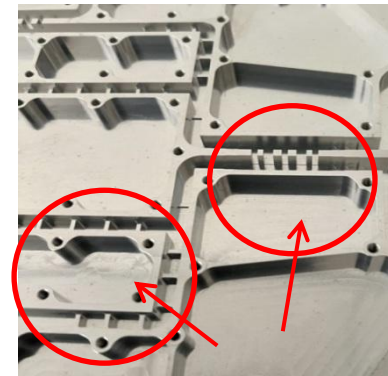
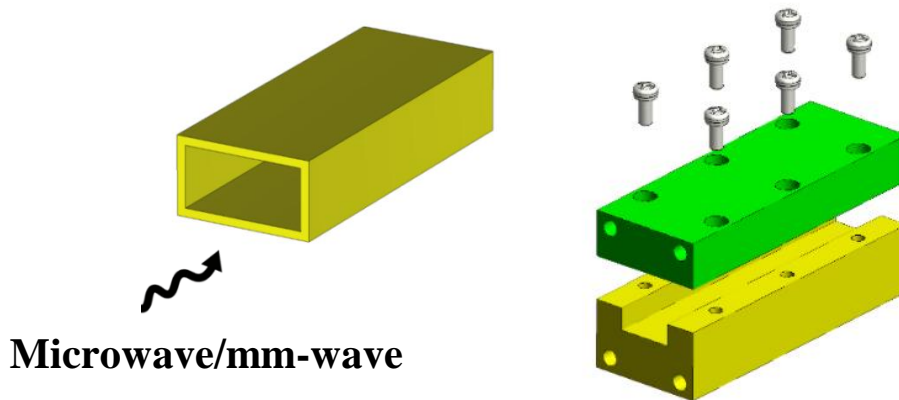
→ **5G Backhaul & LEO** products are manufactured by **Waveguides**

# Products: Waveguide Components

## ■ Rectangular Waveguides & Components:

A rectangular waveguide is a conducting pipe with a rectangular cross-section used to guide the propagation of microwave/mm-wave signals. Rectangular waveguides are extensively used in passive components such as Filter/Diplexer, Coupler, Isolator and Antenna in Telecom/Satellite/Radar applications.

Advantages: 1. low loss – suitable for front-end components in system  
2. higher power – suitable for long-distance communication



Waveguide  
Components

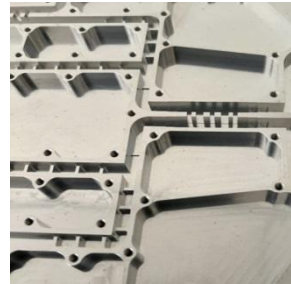
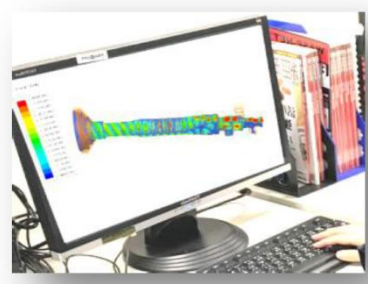


# Mfg Process / Competitive Advantages

## Specs Discussion

Item		REQUIRED VALUE
1	Passband frequency	Pass Band 1
		47.2 - 49.9 GHz
2	Passband Loss	0.1 typical, 0.3dB max.
2.1	Passband ripple	0.2dB typical
	Pass band rejection	Pass Band 1
3		100dB min rejection at 36 - 43GHz
		20dB min rejection at 46GHz
		15dB min rejection at 50.2GHz
		30dB min rejection at 50.4GHz
		50dB min rejection at 54GHz

## Electrical & Mechanical Design



## Precision Machining/Plating



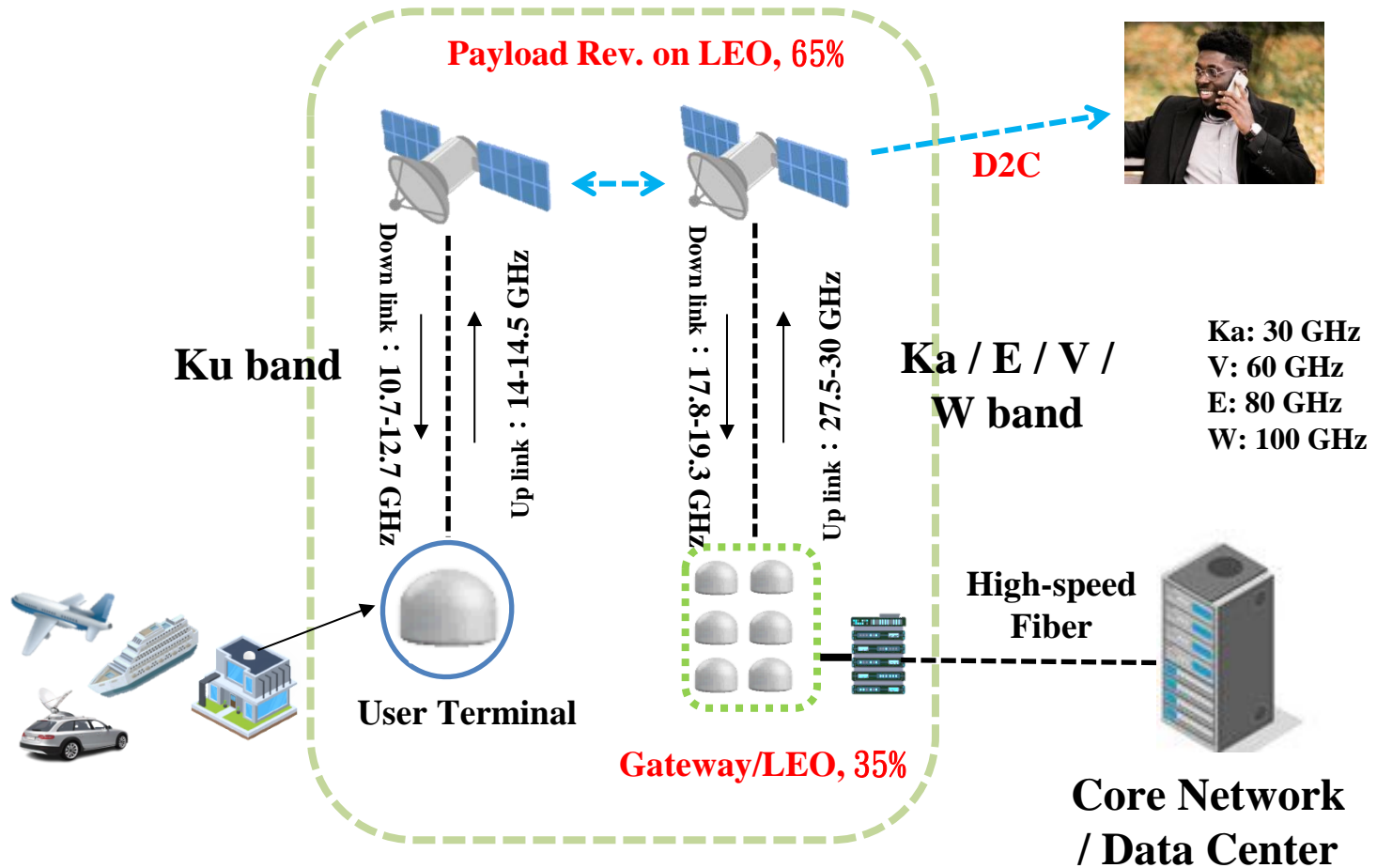
## QA/Shipping



## Assembly/Testing



# LEO: UMT Markets



# LEO Payload: Market Forecast

(Source: Data Bridge Market Research)

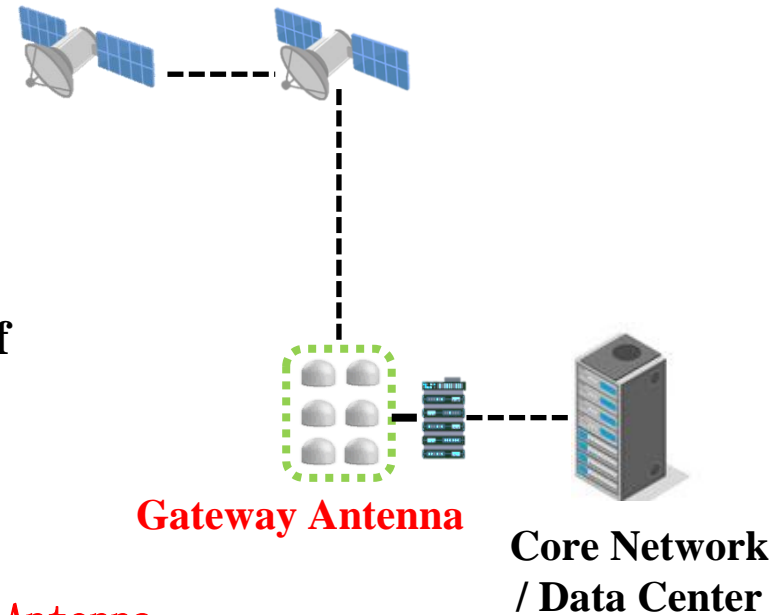


# LEO Satellite: Gateway

## Gateway Antenna System

The exchange of massive information from satellites to ground core network must be done through the ground station called Gateway Antenna System.

Satellites can be regarded as the relay station of the entire network while as Gateway is the fronthaul or backhaul



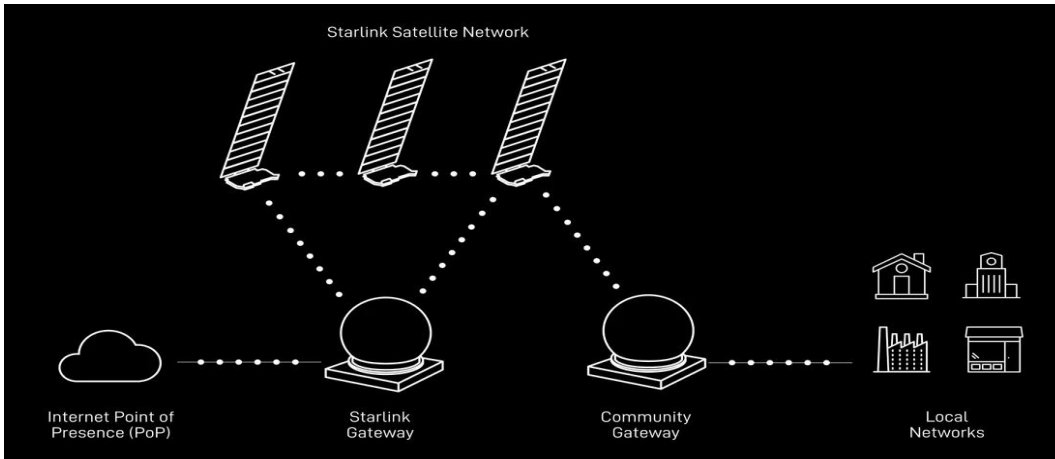
(Source: public information)



# LEO Satellite: Gateway



**More LEO satellites  
launched, more Gateway  
antennas deployed  
(1:3 or higher)**



**Gateway Types:**  
**Backbone Gateway**  
**Regional Gateway**  
**Community Gateway**  
**Mobile Gateway**

(Source: public information)

# LEO: Operation/Market Prospects

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## ■ LEO Prospects

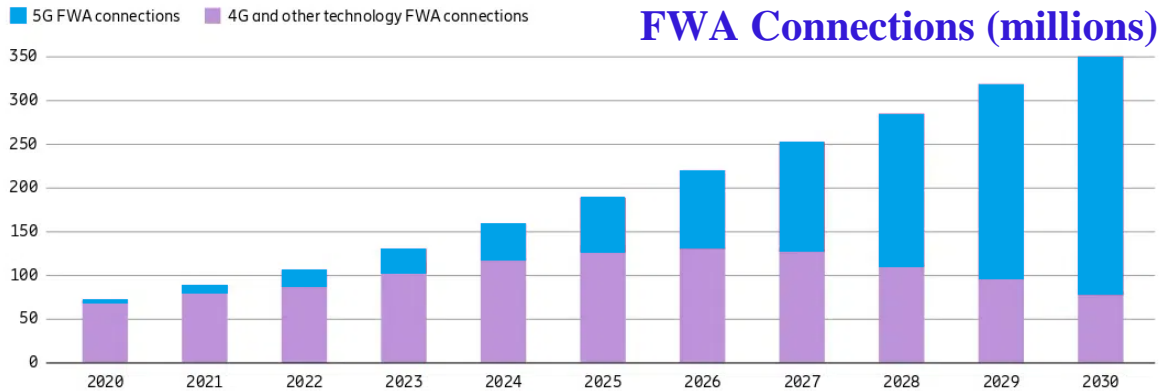


1. Market report forecasts a CAGR 30% in LEO satellites up to 2031
2. 2025\_H1 LEO Revenue YoY ↑40%
3. High business potential from medium- and small-size LEO operators
4. More LEO satellites launched , more Gateway antennas deployed
5. Satellites life cycle about 5-6 years , replacement required

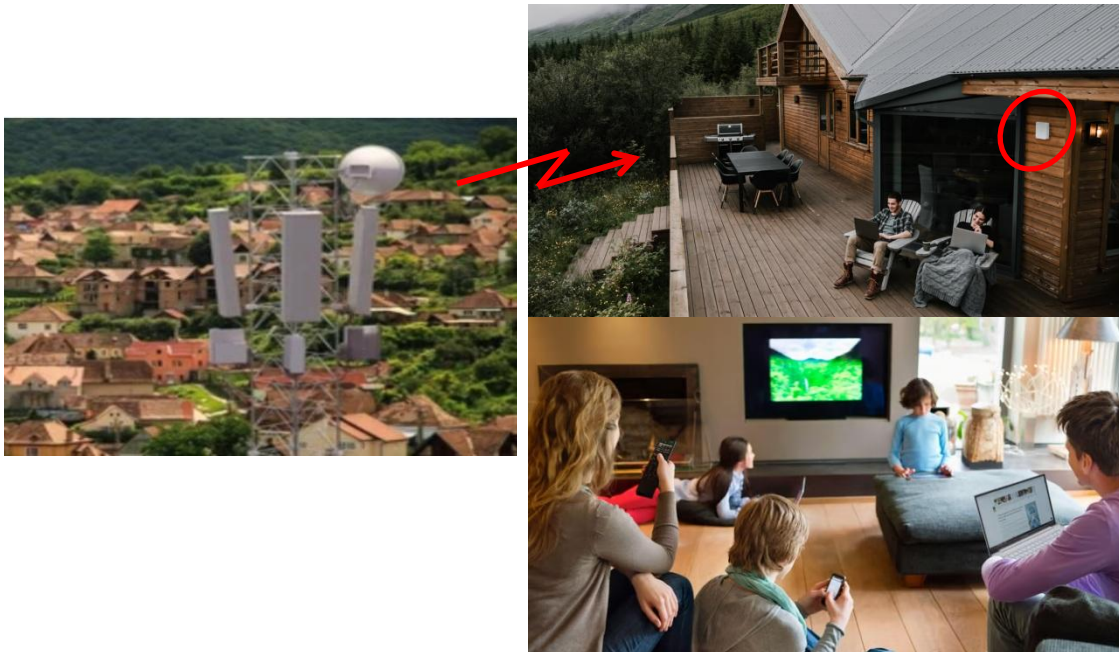


# New Opportunities in Backhaul & RF Antennas

(Source: Ericsson 5G FWA)



**New Business Opportunity:**  
Fixed Wireless Access (FWA),  
the last-mile 5G connectivity,  
fiber-like broadband technology



# New Business Opportunities in Space

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## Communication System

- TT&C
- ISL (inter-satellite link)
- Ka/V/E/W-band



## Spacecraft



# UMT Locations/Productivity

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## Taiwan

- Headquarter
- Factory

Production area:  
20,000 sq.m

## China

- Factory

Production area:  
25,000 sq.m

## Vietnam

- Factory

Production area:  
2,000 sq.m now,  
going to be 22,000  
sq.m in Q1 2027

# Q & A



穩健踏實      專注聚焦      精益求精

**UMT 昇達科 (3491)**