

Orbit Investors Presentation

Growing Together

March 2022

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Significant Install
Base

4,000+ Airborne Systems

4,500+ Maritime Systems

1,800+ Ground Systems

Orbit at a Glance

Orbit is a leading global provider of innovative and highly reliable airborne audio, satcoms, and tracking

Based in Israel and the US, with international sales, production and support facilities

Founded in 1950 as a start up electronics company, Orbit pioneered precision tracking systems

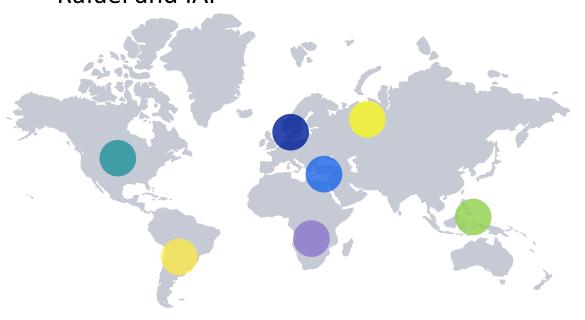
Today, Orbit is a global market leader with technology superiority in airborne audio management and mobile satellite communication

Orbit is a publicly listed company (TASE), combining a strong balance sheet with productive R&D investment



Orbit Customer Base

- **Orbit** serves a diverse, blue-chip international customer base
- **Customers** located in **58** different countries
- Key development partners include Boeing, Lockheed Martin, SES, Inmarsat, Airbus, Rafael and IAI



US, NATO & International Armed Forces

Satellite Operators

ESA, NASA and National Space Agencies

Earth Observation Companies

Emerging New Space Entrants

Aircraft Manufacturers











































































Orbit Global Network





R&D Engineering Manufacturing Sales & Marketing Distribution



Logistic center



Service

Service



Orbit Communication Inc., USA

- Over 20 years of operation
- Major Growth Factor
 - Blue Chip Companies and Government Agencies
 - ➤ Boeing, Lockheed Martin, SNC (Sierra Nevada Corporation)
 L3Harris, United States Air Force
 - Platform for Global Sales via US Local Integrators
 - FMF Reform Ready
- Full Production capabilities
- American Sales and Service



תוכנית הסיוע האמריקאי לישראל: משמעויות תקציביות ואסטרטגיות

<u>שמואל אבן, ששון חדד</u>



באוקטובר 2018 תחל שנת תקציב חדשה בארצות הברית ועמה תוכנית הסיוע הרב-שנתית לישראל לעשור 2028-2019, נסק 38 מיליארד דולר. מתוכם: 33 מיליארד דולר מתוכם: 30 מיליארד דולר ממשרד ההגנה למימון פרויקטים משותפים להגנה מינית! ברויקטים משותפים להגנה מפני טילים (נושא זה לא נכלל בתוכנית הסיוע הרב שנתית הקודמת). עם זאת, תנאי הסיוע הוקשחו: ישראל לא תרכוש בכספי הסיוע דלק ויכולתה להמיר כספי יחני חדליק של שלקים תפחת עד לאפס בסוף התוכנית. הדבר יהווה אתגר לשימור יכולות המו"פ ועוצמתן של התעשיות הביטחוניות בישראל, הנשענות עתה על רכש של צה"ל התעשיות הביטחוניות בישראל, הנשענות עתה על רכש של צה"ל

We are Ready! For FMF reform





Main Product Segments

Airborne Audio



Mobile Satellite Communication



Ground Systems



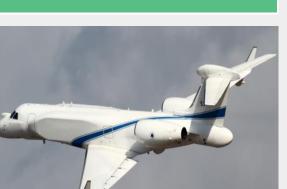
- Pioneer in Airborne Satcoms and Audio Management
- Civil and DoD/MoD qualifications and certifications
- Tailored solutions for a broad range of aircraft, helicopters and UAVs

- Airborne Satellite
 Communication
- Maritime Satellite
 Communication
- Long-standing supplier to US and NATO Navies and Air Forces
- Top supplier of compact Ground Stations for 'New Space' and Earth Observation
- Range of fixed and transportable Turn-Key Telemetry and Tracking Solutions



Prime Customers & Partners

Airborne Audio



Mobile Satellite Communication



Ground Systems



Audio Management
Systems with integrated
3D, ANR





















Airborne and **Maritime**Satellite Communication















RAFAEL







€ L3HARRIS[™]

'New Space', Earth
Observation, LOS and
Telemetry Systems















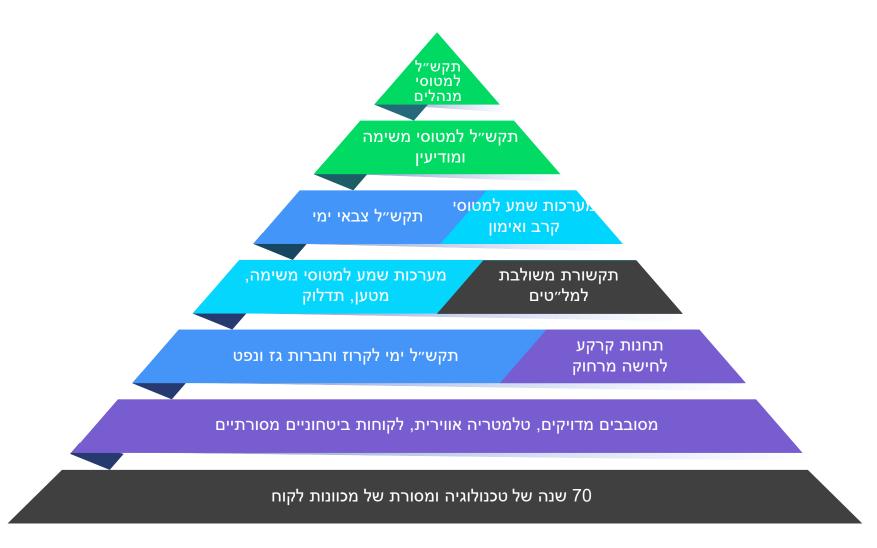








בסיס חזק של לקוחות ושווקים עולמיים





תקש״ל מוטס

מערכת שמע

תחנת קרקע וטלמטריה

פתרונות משולבים

Audio Management Systems



Airborne Audio Management – Substantial Opportunities

- Large Install Base
- Thousands of Flying Systems
- Leading-edge technical features on Orion™ including 3D audio and Active Noise Reduction
- Growth potential to Rotorcrafts and Ground Platforms







AMS Significant Install Base – Partial Snapshot

Year	Customer	Platform		
1991	US Army	Army Helicopters		
1995	Lockheed Martin	Classified		
1996	IAI & Boeing	T-38		
1997	Gulfstream	G 4		
1998	Rockwell Collins	KC-135		
2001	Gulfstream	G-3/4/5		
2002	US Navy	Confidential		
2004	Airbus DS	C-295, CN-235		
2009	US Homeland Security	Confidential		
2013	Antonov	Confidential		

Year	Customer	Platform			
2013	UAC	MC-21			
2014	Undisclosed OEM	Trainer			
2015	Airbus DS	C-295			
2018	US Air Force	KC-135			
2018	Embraer	Confidential			
2019	IAI	Heron TP			
2016	Boeing	Classified			
2020	Boeing	T-7A			
2020	Lockheed Martin	F-16			
2021	CASFER,SNC, L3H,Airbus	C-130, C-295, G550			

^{*} ייצור סדרתי בהקפים גדולים





מערכות אודיו קשר פנים – מוצרים סדרתיים

NEW PROGRAMS (Fighter's, Trainer's, Helicopters, Mission...)



LOCKHEED MARTIN F-16 מטוסים 5000 מוציאל



BOEING – CLASSIFIED פוטנציאל 2000 מטוסים



בואינג מטוס אימונים לחיל האויר פוטנציאל 2500 מטוסים BOEING T-7A



USAF-KC-135 חיל האויר האמריקאי מטוסי תדלוק פוטנציאל



G550, KingAir350, U-28, P-12, C-295, AN-124, AN-128 עשרות מטוסי משימה בשנה





Growing Relationship with Leading OEMs





F-16 Orion Recent Award

ORBIT REPORTS A MAJOR COMPETITIVE WIN ON A LOCKHEED MARTIN BID FOR THE DEVELOPMENT AND PRODUCTION OF THE NEXT GENERATION 3D AUDIO MANAGEMENT SYSTEMS FOR F-16 AIRCRAFT

Estimated Long Term Agreement Contract Value of \$46 Million

Deerfield Beach, Florida, August 23, 2020 - Orbit Communication Systems Inc., the U.S. subsidiary of Orbit Communication Systems Ltd. (TASE: ORBI), who specializes in satellite communication, tracking systems, and airborne communication and audio management system (3D-AMS) for the next generation avionics suite of the F-16. The Long-Term (Prombat 3D Audio Management System (3D-AMS) for the next generation avionics suite of the F-16. The Long-Term (Agreement includes development, production, and sustainment of audio management systems valued at an estimated contract of \$46 million.

This agreement will enable continued delivery on current F-16s commitments for partners around the world. The F-16 has been proving its value for decades and continues to remain the best value among 4th generations jets for its high-tech capabilities and affordable lifecycle costs. Today approximately 3,000 aircraft are flying in more than 25 countries.



F-16s Could Still be Flying Into the 2070s

SHARE ARTICLE

May 23, 2021 | By John A. Tirpak

Based on Lockheed Martin's backlog of F-16 orders, planned upgrades, and the recent revelation that the Air Force plans to depend on the fighter into the late 2030s, the F-16's sunset years now could come in the 2070s, or later.

The late Michele A. Evans, Ulmer's predecessor as Lockheed VP for aeronautics, said in September 2020. the company sees a **possibility 'of getting up to 5,000" F-16s** built. She also said the company views the F-16 as an entrée to its F-35, for countries that are not yet ready to adopt the fifth-generation fighter, but may wish to later

Source: Airforce Magazine

\$46 Million Contract



F-16 Orion Recent Award

USAF Unveils \$6.3bn F-16 Fighter Upgrade Program

by David Donald - March 4, 2022, 6:18 AM



F-16s from the 53rd Wing and 96th Test Wing are seen at Eglin AFB, Florida, in July 2020. All four had been fitted with the APG-83 SABR radar for trials. (Photo: U.S. Air Force)









After some years of stalling over a fleet modernization effort, the U.S. Air Force will now upgrade 608 of its youngest Lockheed Martin F-16s in a massive program that will cost an estimated \$6.3 billion. Managed by the Fighters and Advanced Aircraft Directorate of the Air Force Life Cycle Management Center, the program brings together 22 specific modifications—some of which are already under way—that address the aircraft's lethality and aim to equip it for service until at least the late 2040s.



Airborne Satellite Communication

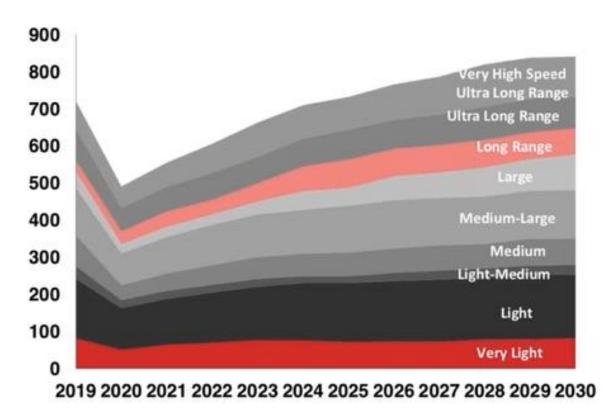


Orbit Satcom Offering

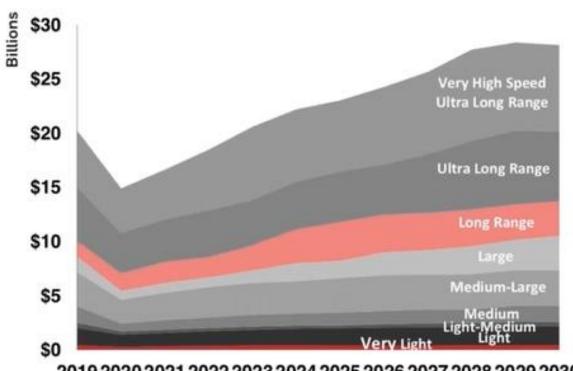


2020 Business Aviation Outlook – Orbit 12" Antenna System

Aircraft Deliveries



Delivery Value - Constant \$2020



2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030

~7,300 Aircraft, up to \$235B in value from 2021-2030

Airborne Satellite Communication Recent Publications

Inmarsat and Orbit expand partnership with new Jet ConneX compatible inflight broadband terminal for business aviation

22 Mar 2022

PRESS RELEASE

JET CONNEX

VIATION

BUSINESS AND GENERAL

With record demand for premium business aviation connectivity, the compact tail-mount terminal is progressing towards type approval on Inmarsat's Ka-band satellite network

The business aviation market will have access to a new compact and lightweight terminal for Inmarsat's market-leading <u>Jet Connex</u> (JX) inflight broadband solution from early next year, after the company expanded its partnership with Orbit Communication Systems, a leading provider of airborne communication solutions.

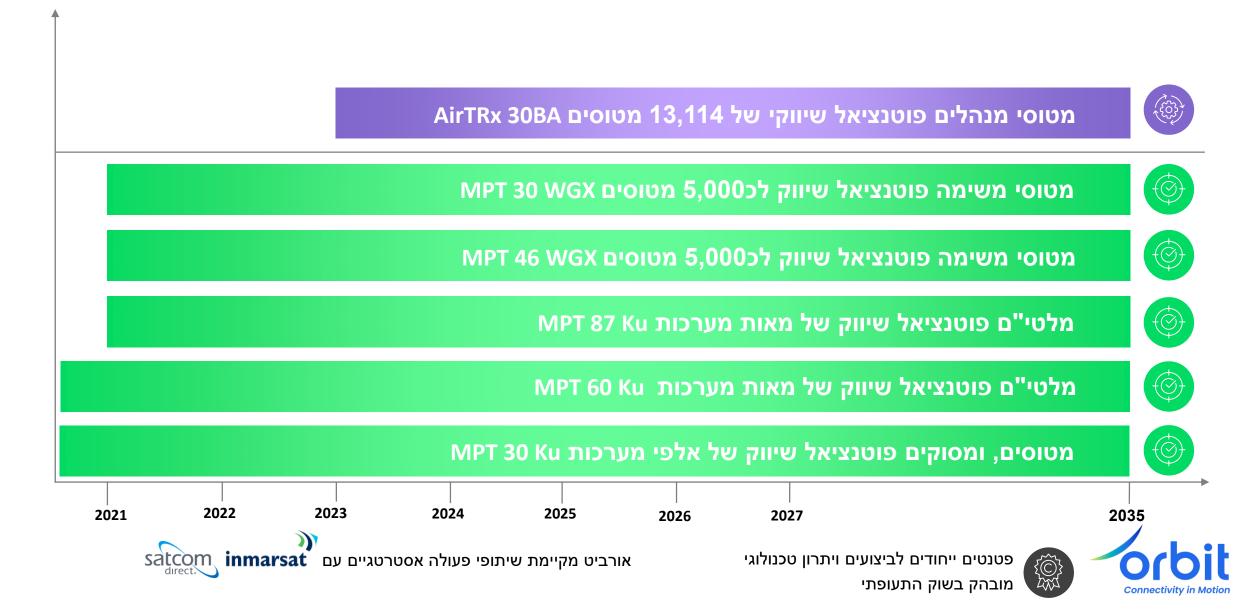
Orbit's AirTRX30 terminal is progressing towards type approval on Inmarsat's global Ka-band satellite network, which powers JX. The advanced system is compatible with a wide range of business jets, from super mid-size to large cabin platforms, and includes only two Line Replaceable Units (LRUs), consisting of a modem manager (MODMAN) and tail-mounted antenna. The simplified architecture is optimised for efficient installation and weight savings, which in turn also helps to reduce its environmental impact.

Honeywell Forecast Shows Quick Rebound for Business Aviation as Flight Hours, Purchase Plans Grow

- Business jet flight hours in 2021 are expected to be almost 50% higher than a year ago, and above pre-pandemic levels
- 30th annual Global Business Aviation Outlook projects 7,400 new business jet deliveries over the next decade valued at \$238 billion
- 90% of operators say that purchase plans of new or used jets have not been postponed by COVID-19
- Business jet operators report a sharp increase in used aircraft purchase plans



מוצרי תקשורת לווינים מוטסים – צמיחה דרך מוצרים



Airborne Satellite Communication Recent Publications

Orbit Delivers its First GX30 Multi-Purpose 30cm SATCOM Terminal for Demonstration and Test on the Inmarsat Global Xpress and Mil-Ka Networks

September 09, 2021 | Press Releases

The multi-purpose, high-throughput aviation terminal supports military, government and commercial users worldwide

Fits on a range of business jets, military aircraft and unmanned aerial vehicles

Inmarsat Government, the leading provider of secure, global, mission-critical telecommunications to the U.S. government, Orbit Communications Systems Ltd. (TASE: ORBI), a leading provider of airborne communications solutions, and Boeing [NYSE: BA] Commercial Satellite Services today announced that the Orbit GX30 multi-purpose terminal (MPT) demonstration system has successfully completed the first phase of testing with government users over Inmarsat Global Xpress (GX) and high-capacity, global military Ka-band. This follows the delivery of the Orbit GX46 MPT 46 cm antenna systems that have been in production since 2020.

GX is the world's first and only, globally available, seamless mobile wideband service. In U.S. government service since July 2014, GX has established itself as the gold standard for reliable communication across land, sea and air domains for assured mobile connectivity.

Boeing's managed network service and secure commanding of the Inmarsat high-capacity, global military Kaband (HCX) system provides U.S. government users with global "center of the beam" connectivity. Using hosted payloads on the Inmarsat 5 satellites, Boeing provides users 100-740 MHz of steerable, bi-directional spot beam capacity. This allows for both manual steering and closed-loop steering to always keep the designated user or platform in the center of the beam with the highest possible radiated power.

The GX30 terminal delivered a 126 Mbps+ forward link and a 29 Mbps+ return link. The MPT terminal is designed to maintain uninterrupted connectivity to the network during all flight phases.



ORBIT GX46 AIRBORNE SATCOM TERMINAL RECEIVES INMARSAT GLOBAL XPRESS COMMERCIAL AND MILITARY KA-BAND TYPE APPROVAL

Multi-purpose, high-throughput aviation terminal supports military, government and commercial users worldwide

06.04.21

Inmarsat, the world leader in global, mobile satellite communications services and Orbit Communication Systems Ltd. (TASE: ORBI), a leading global provider of airborne communications solutions, today announced that the Orbit GX46 multi-purpose terminal (MPT) has received full type approval for use over Inmarsat's Global Xpress (GX) network.

GX is the world's first and only, globally available, seamless mobile wideband service. In U.S. government service since July 2014, GX has established itself as the gold standard for reliable communications across land, sea, and air domains for assured mobile connectivity.



Orbit GX46 Airborne SATCOM Terminal Receives Inmarsat Global Xpress Commercial and Military Ka-band Type Approval



Airborne Satellite Communication Installation Kit



GLOBAL REMOVABLE BLoS AIRBORNE SATCOM

FOR C-130 AIRCRAFT

Designed as a complete and customizable upgrade,
TRASC has been developed to provide a multi-functional and
high-throughput capability to work with Ka-band solutions
for transmitting voice and data for Roll-On / Roll-Off (RO/RO)
C-130 airborne applications. This turnkey solution is fully
FAA STC and DoD certified to work on all C-130A – J variants.

ANTENNA MOUNT FEATURES & BENEFITS

- · Optimized Size, Weight and Power (SWaP)
- Mounting options: Multi-Purpose Hatch System (MPHS) and/or Multi-Purpose Shoulder Panel System (MPSPS)
- Rapid RO/RO installation (NO PERMANENT modification to the aircraft)
- Field repairable by certified technicians
- . Ka-band SATCOM 12" Orbit MPT™ 30WGX

MPT™ 30WGX KEY FEATURES

- WGS Ready and MIL-STD-188-164C compliant
- Inmarsat GX Category 1 & 4 certification (in process)
- Compatibility with variety of modems
- User-friendly web user interface (WEB-UI)
- OpenAMIP and OpenBMIP protocol support
- Low power consumption
- Lightweight antenna design
- Stabilization using various types of INS/IRU
- Integrated RF electronics behind the aperture
- RTCA/DO-160G Certification





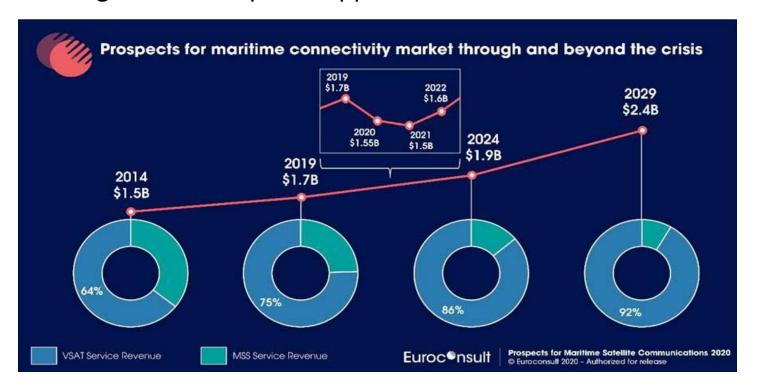
Maritime Satellite Communication



Maritime Satcom – Expanding Market Position

OceanTRx has rapidly become a leader in large cruise ships

- Now on 12 of 15 largest liners Royal Caribbean, MSC, Virgin and others
- More than 25 Navies using Orbit Products
- Integrated New Space Support for NGSO Satellites







מיקוד של אורביט במערכות תקשורת לוויניות ימיות

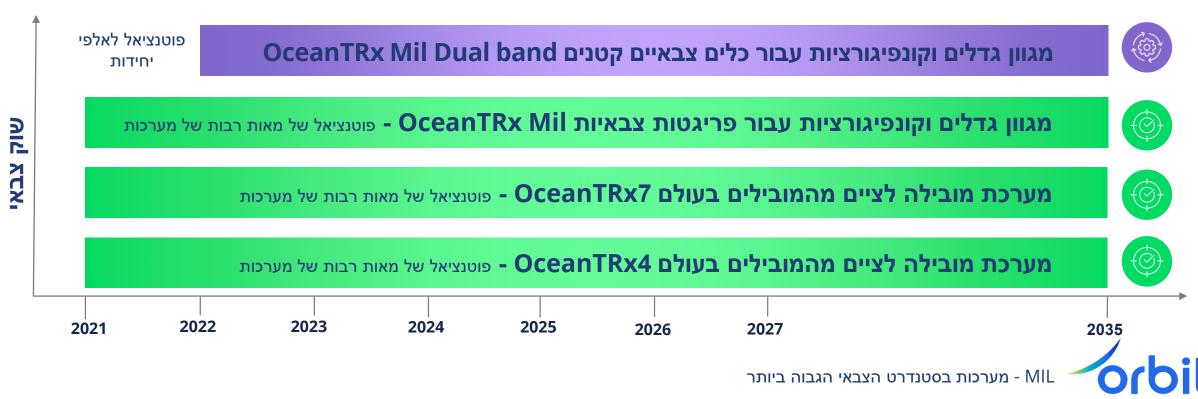


פוטנציאל מצטבר

המערכות הימיות של אורביט הן המערכות הימיות היחידות בעולם שתומכות בשידור וקליטה של 2 תדרים בו זמנית



היום בבנייה מעל 900 כלי שייט צבאיים ומעל 300 צוללות



ORBIT COMMUNICATION SYSTEMS REPORTS DELIVERY OF A MILITARY SATELLITE COMMUNICATIONS SYSTEM FROM THE OCEANTRX 4 MIL FAMILY TO THE ISRAELI NAVY, FOR THE SAAR 6-CLASS CORVETTE.

This will provide continuous satellite connectivity at a variety of frequencies to Saar 6 vessel.

Netanya, Israel, May 3, 2021 - Orbit Communications Systems Ltd. (TASE: ORBI), a leading global provider of maritime and airborne satcom terminals, tracking ground station solutions, and mission-critical airborne audio management systems announced today the delivery of an OceanTRx 4 Mil satellite communications system to the Israeli Navy to be installed on the Saar 6-class corvette.

"We are proud that the Israeli Navy has chosen the OceanTRx 4 Mil Platform," said Daniel Eshchar, CEO of Orbit. "This platform is one of the most advanced naval satellite communication solutions in the world. The platform supports both military and civilian bands on a single military system."

About Orbit's OceanTRx 4 Mil System

OceanTRx 4 Mil is a Maritime Satcom Terminal, based on the OceanTRx4 platform but with advanced military features. A patented satellite communication system designed for maritime platforms and supports a variety of configurations of 1.15-meter diameter antenna systems, operating different frequencies including simultaneous operation of a variety frequencies for global operation. The OceanTRx 4 Mil system is designed for quick and convenient installation, maintenance and upgrade, combining RF performance and exceptional system availability for security customers.





מיקוד של אורביט במערכות תקשורת לוויניות ימיות







Strong Maritime Presence

Orbit Communications continuous the cooperation with SLS (Support Logistic Services, a company of the Fincantieri Group) a leading European integrator for innovative military maritime satellite communication systems, for supplying SATCOM multiband maritime systems to Leonardo for the Italian Navy.

Orbit's OceanTRx 4Mil Maritime systems will provide multi-band, continuous satellite connectivity at a variety of frequencies for the Italian Navy.

NETANYA, Israel, March 21, 2022 - Orbit Communications Systems Ltd. (TASE: ORBI), a leading global provider of maritime and airborne satcom terminals, tracking ground station solutions, and mission-critical airborne audio management systems announced today that it continues the development of an order from SLS, a leading European integrator, for OceanTRx 4Mil satellite communications systems Delivery of the systems, which will provide the fleet with continuous multi-band satellite connectivity, is expected to be delivered during years 2022 and 2023



Orbit Maritime System Achieves Significant Design Milestone Acceptance for SES's O3b mPOWER system

Orbit's OceanTRx Series of Maritime systems will provide continuous satellite connectivity at a variety of frequencies and satellite orbits to support SES's multi-orbit satellite networks.

NETANYA, Israel, March 15, 2022- Orbit Communications Systems Ltd. (TASE: ORBI), a leading global provider of maritime and airborne SATCOM terminals, tracking ground station solutions, and mission-critical airborne audio management systems announced that they successfully completed the significant design milestone towards a first system release for its Orbit Maritime system in Q3 2022.

The system will enable superior quality service on SES's medium earth orbit (MEO) constellation, O3b, its second-generation MEO system, O3b mPOWER, as well as its geostationary (GEO) satellites.

The terminal is the result of a partnership agreement between the companies in 2021 to develop evolutionary multi-orbit maritime terminals.

SES's O3b mPOWER satellites are operating approximately 8,000km above Earth's surface and can be shifted and scaled in real-time to meet customer demands. When launched this year, the O3b mPOWER system will deliver connectivity services ranging from tens of megabits to multiple gigabits per second.



Strong Maritime Presence

05.07.2021

אורביט קיבלה הזמנה למערכות תקשורת לוויינית בהיקף של כ-6.3 מיליון דולר

ההזמנה היא עבור פלטפורמה צבאית ימית מאינטגרטור אירופאי מוביל הכוללת מערכת מסוג OceanTRx4 Mil מערכת מסוג

מערכות ה-OceanTRx4 Mil, תספקנה קישוריות לוויינית רציפה במגוון תדרים לספינות צי מערכות החברה החברה דיווחה על קבלת הזמנות למערכות תקשורת לוויינית מוביל באירופה. מסוג OceanTRx בסך של כ- 16.9 מיליון דולר

אורביט טכנולוגייס (תייא: ארביט) מובילת שוק בפתרונות לניהול קשר ושמע במערכות מוטסות, טרמינלים לתקשורת לוויינית מוטסת וימית הודיעה היום על עסקה משמעותית במסגרתה קיבלה הזמנה מלקוח שהינו אינגרטור אירופאי מוביל, למערכות תקשורת לוויינית מסוג OceanTRx4 Mil עבור פלטפורמות צבאיות ימיות חדשות באירופה בסך כולל של כ-6.3 מיליון דולר.

אספקת המערכות, אשר יסופקו לצי האירופי קישוריות לוויינית רציפה על גבי פס רחב, צפויה להתחיל במהלך 2023. המערכות הנ״ל יתווספו למערכות OceanTRx של אורביט שכבר קיימות באוניות הצי ומחזקת את אחיזתה של אורביט כמובילה בשוק זה.



Ground Stations - New Space



Ground Stations – New Space Opportunities

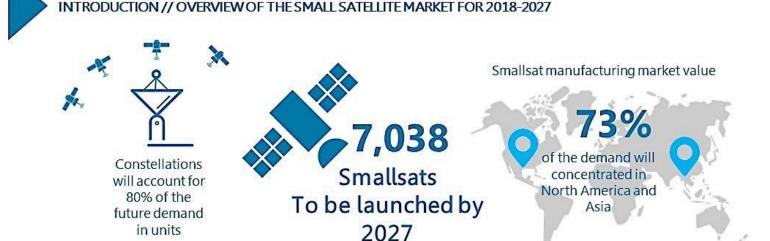
Rapid growth in 'New Space',

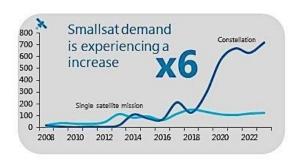
High demand for data drives

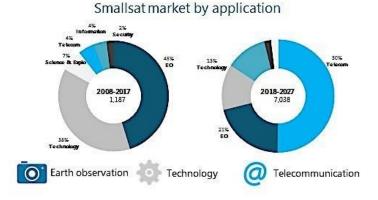
Growing demand for Connectivity

Orbit providing **Ground Stations** for

New Space











Gaia Series





Earth Observation





























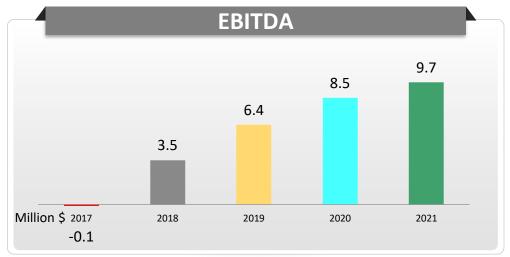
רכישת חברה בת - יוקליד הנדסת מערכות בע"מ

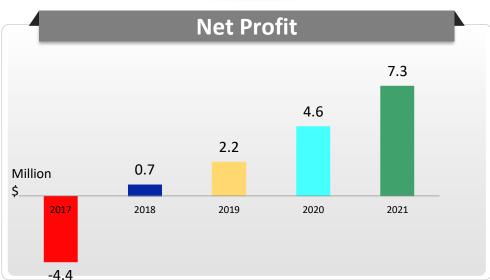


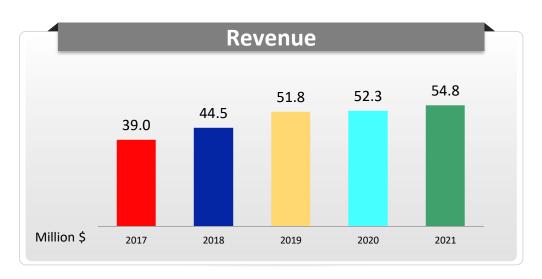
Financial Review

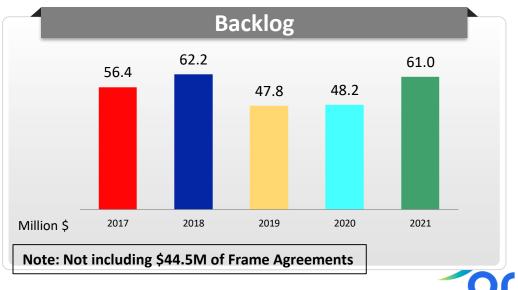


Revenue, Ebitda, Net Profit, Backlog 2017-2021

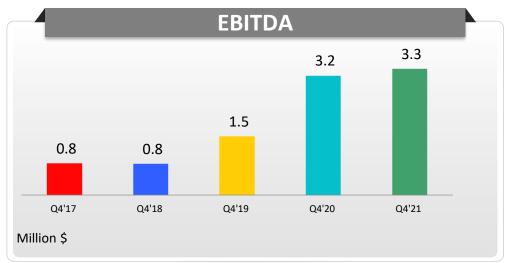


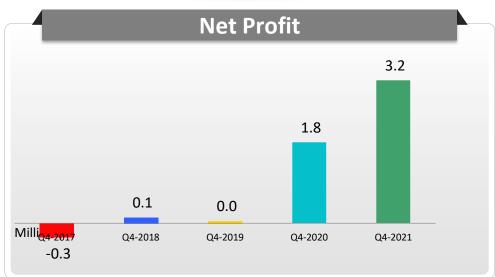




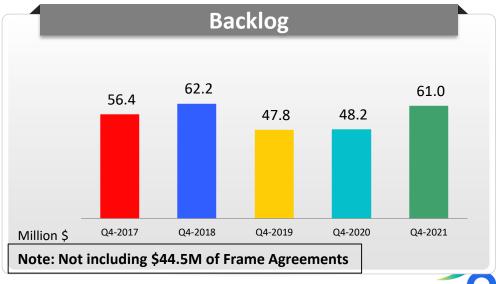


Revenue, Ebitda, Net Profit, Backlog 2017-2021 (Q4)

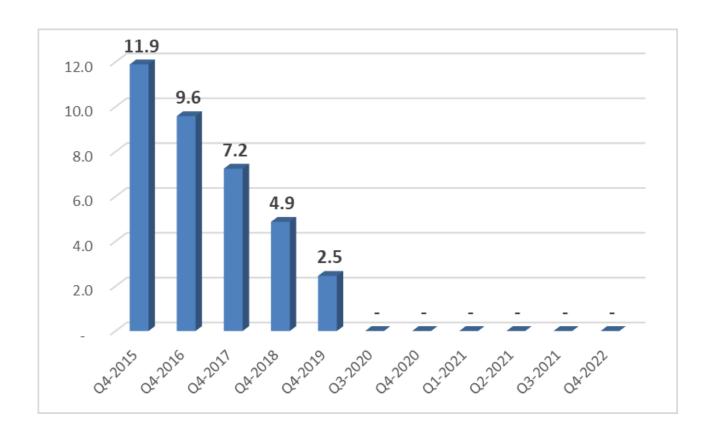








Debt declined (Million \$) Bonds





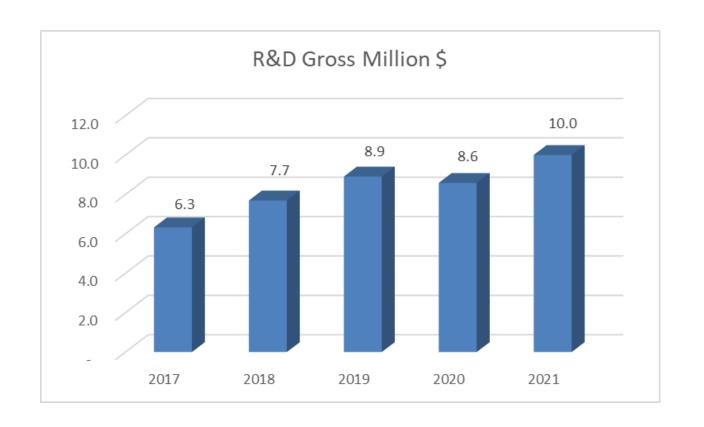
Growth in Equity





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R&D Gross 2017-2021





Balance Sheet (Million \$)

ASSETS	31.12.17	31.12.18	31.12.19	31.12.20	31.12.21
CURRENT ASSETS					
Cash and cash equivalents & Sort- term deposits	13.3	12.0	17.4	23.6	29.9
Accounts receivable	10.8	10.6	12.2	11.5	10.7
Inventories	7.8	7.5	7.3	5.7	5.7
Amounts due for construction contracts	4.8	4.4	3.6	5.1	7.1
NON-CURRENT ASSETS					
Fixed assets	3.5	4.9	8.9	8.5	14.6
Intangible assets	5.2	5.8	5.8	5.5	6.3

LIABILITIES AND EQUITY	31.12.17	31.12.18	31.12.19	31.12.20	31.12.21
CURRENT LIABILITIES					
Current maturities of convertible bonds	2.4	2.4	2.5	-	-
Other accounts payable	9.0	10.9	11.2	13.7	14.9
NON-CURRENT LIABILITIES					
Convertible Bonds	4.8	2.4	2.5	-	-
Equity	22.3	23.3	30.9	35.7	43.5



Thank You

