



Interim Report

January – June 2026

August 12, 2026



Highlights

2026

Second Quarter

- Presented at the Redeye Investor Forum in Gothenburg
- Advanced the 6G mmWave ecosystem during 3GPP evaluation of digital beamforming
- Completed a SEK 20 million directed share issue with additional institutional investors
- Rights issue oversubscribed by 276.4%, gross proceeds of SEK 51.7 million
- Completed a directed share issue of approximately SEK 25 million, strengthening institutional ownership

After the Period End

- BeamWave awarded a technology development contract within the defence sector. The order value amounts to SEK 1,870,000



Financial Information

January – June 2026

Key Figures ¹ (KSEK)	2026 Q2	2025 Q2	2026 H1	2025 H1	2025 Full year	2024 Full year
Net sales	–	951	–	2,593	2,593	1,066
Operating profit/loss	-9,977	-7,445	-18,293	-8,771	-25,229	-23,202
Intangible fixed assets	68,421	51,834	68,421	51,834	56,713	47,335
Cash and cash equivalents	144,598	22,308	144,598	22,308	79,855	38,142
Cash flow	80,095	-10,318	64,743	-15,834	41,713	13,360
Equity	206,620	69,801	206,620	69,801	132,849	77,624
Total assets	214,642	76,526	214,642	76,526	139,737	87,348
Equity ratio (%)	96	91	96	91	95	89
Quick ratio (%)	1,823	367	1,823	367	1,205	411
Average number of outstanding shares during the period	44,988,867	31,582,156	45,509,663	31,554,356	34,956,918	18,679,281
Number of outstanding warrants at the end of the period	2,850,810	1,585,340	2,850,810	1,585,340	1,585,340	1,618,880
Earnings per share ² (SEK)	-0.21	-0.23	-0.40	-0.28	-0.71	-1.22
Number of employees end of period	27	14	27	14	23	12

¹Key figure definitions on page 14

²Recalculated in accordance with split 10:1 och 100:1



Comments from Our CEO

A Quarter of Execution, Financial Strength, and Commercial Expansion

A Quarter of Execution, Financial Strength, and Commercial Expansion

As we return to the office after the summer, it is hard not to reflect on the turbulent state of the world around us. Between devastating wildfires across Europe and the US, earthquakes in Japan, exceptionally dry European rivers - even the small creek where I have spent the last 30 summers ran completely dry for the first time in my memory - and ongoing geopolitical conflicts in several regions, we are living through a period of intense global extremes. Yet, stepping back into the BeammWave headquarters, I am met with a powerful and inspiring contrast. Our office has been extraordinarily busy throughout the entire summer, buzzing with relentless focus and execution. Returning to this level of dedication is deeply energizing, and it sets a solid foundation as we summarize a highly productive second quarter.

Financial Strength and a Fortified Ownership Base

During the second quarter, we successfully executed three share issues: two directed issues of SEK 25 million and SEK 20 million, alongside a rights issue of approximately SEK 51.7 million. In total, these capital raises yielded gross proceeds of SEK 96.7 million. The rights issue was oversubscribed by an impressive

276.4%, which is a strong testament to the market's confidence in our trajectory.

Just as importantly, the directed issues allowed us to bring in long-term, institutional capital, significantly strengthening our ownership base. This capital injection provides a robust financial foundation, removing short-term financial distractions and allowing the team to maintain a 100% focus on commercial execution, industrialization, and customer projects acceleration.

Technology, Operations, and Silicon Realization

Having successfully transitioned from R&D and simulations into the physical realization of our advanced-node silicon earlier this year, our execution is now entirely focused on hardware delivery. Bringing our Digital BeamForming Accelerator (DBFA) into physical reality is a demanding process. Having deep customer discussions, driving requirements and priorities gives us confidence and validation of market needs, and ensures we are building the right product. Our momentum remains highly positive, and our RF chip continues to follow the plan. To support this physical rollout and our growing pipeline of customer projects, we have completed a streamlined rebuild of our lab.



Combined with a new release of our development platform, this gives us the increased testing and integration capacity required to efficiently handle parallel customer projects and extensive automated testing as part of our industrialization. Advanced measurements and testing are currently ongoing in our lab for key customers such as our undisclosed Asian customer, Molex and Alpha Networks. Finally, we continue to aggressively protect our innovations, with our intellectual property portfolio now exceeding 50 active patent families.

Commercial Footprint, Asia Expansion, and Ecosystems

Our commercial footprint continues to expand rapidly, particularly in the Asian market. We are making highly encouraging progress with a global Tier-1 Asian technology partner, advancing from an initial technology evaluation toward formalizing a deeper co-development framework. This level of engagement demonstrates that major industry players are ready to commit dedicated engineering resources to build solutions around our products.

Our deep market engagement is yielding tangible results. Our Head of Sales recently spent several intensive summer weeks on the ground in Japan, driving concrete progress with multiple network operators. We are also ramping up our commercial activities in South Korea, with another trip to Asia planned shortly. What has become abundantly clear in these discussions is the necessity of broad ecosystems. Consequently, we are now actively preparing complex, three-party collaborations to bridge the gap between operators, technology partners, and our solutions.

While 5G and 6G remain our core focus, the inbound commercial interest from the satellite communications (Satcom) sector remains persistently strong. Furthermore, as a definitive stamp of quality and robustness, we recently secured a technology development contract within the defense sector valued at SEK 1.87 million. The defense sector remains of strong interest for us and the potential is clear, a more strategic initiative within this segment will be considered. This highlights the versatility and extreme performance capabilities of our architecture.

6G Standardization and 3GPP Leadership

Looking toward the future of the industry, our work with 3GPP and the 6G mmWave ecosystem continues to be a top strategic priority. I am proud to share that our extensive, data-backed contributions to the 3GPP evaluation phase are now fully completed and submitted. We have done the heavy technical lifting to ensure that digital beamforming is positioned front-and-center in the global 6G reference architecture. BeammWave is no longer just proving that the technology works; we are actively shaping the standard for the next generation of wireless communication.

Stefan Svedberg
CEO, BeammWave AB



BeammWave in Brief

BeammWave

BeammWave AB is a deep-tech company with expertise within communication solutions for frequencies over 24GHz. The company was founded in 2017 by Per-Olof Brandt och Dr Markus Törmänen, based on a long-term research of mmWave and wireless technology at LTH (Lund University Faculty of Engineering). Today, BeammWave has a total of approximately 30 employees and consultants. After several years of development work, the company announced their first product, an Advanced Development Platform (ADP1), at the end of 2023. This makes it possible to demonstrate the company's digital beamforming over the air. BeammWave's three customers together cover the applications BeammWave is targeting: smartphones, CPEs and base-stations. In addition, BeammWave also have some dual-use related activities.

The Need

BeammWave operates in the technical field of digital beamforming. Today, only so-called analog beamforming is used for the direction of the radio signal, which means that large parts of the direction problem are solved analogically with the help of specially designed components. There are two central challenges with the analog alternative: firstly, that this solution is space-consuming and inflexible, and thus difficult to integrate into small battery-powered consumer devices. Partly because it can only receive and transmit one signal at a time in a certain direction, which

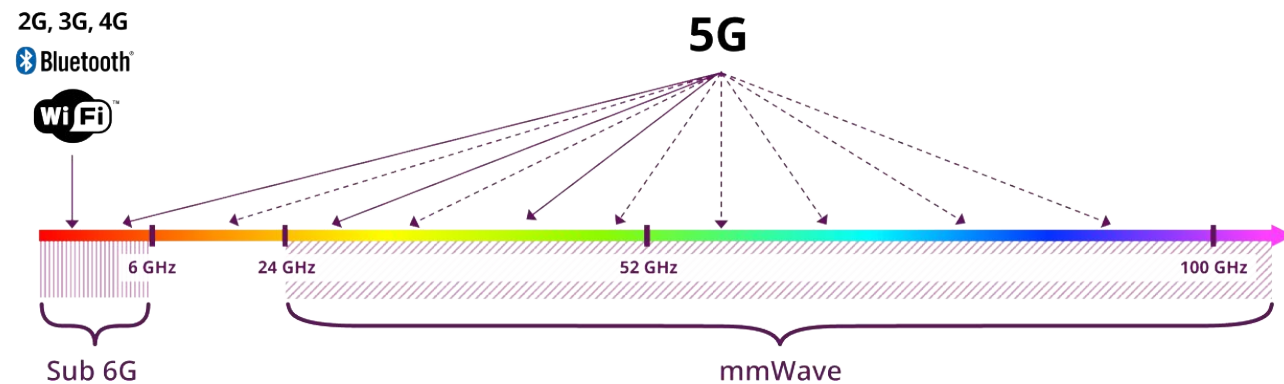
results in large performance losses. BeammWave aims to solve these challenges by offering a digital solution that is smaller, easier to integrate and with significantly higher performance. There is a strong consensus within the industry that digital will replace analog beamforming. What is not agreed upon is the timing when the technology will be ripe for this. Digital beamforming controls the direction of the radio signal in an advanced digital environment through software, rather than using large analog radio components, as is the case with analog beamforming. beamforming.

The Market

The global use of 5G is expected to grow strongly in the coming years. The Ericsson Mobility Report (2024) predicts that the number of 5G subscriptions will increase to 5.6 billion by 2029.

Currently, there is a strong expansion of mmWave-based infrastructure in North America and Japan in particular.

This development is driven by the major operators in the US; Verizon AT&T and T-Mobile together the four largest in Japan; NTT DoCoMo, Softbank, KDDI and Rakuten. BeammWave attaches great importance to the dialogue with these operators. In addition to these, there is a wide range of consumer products, such as Apple's iPhone's (starting from model 12) as well as numerous other brands that include mmWave technology.



The performance of digital beamforming with **less power** and **lower cost** than analogue beamforming

~50 patent families and counting



50%



Higher throughput for end-users

Flexible design
that is *easy*
to integrate

Financial Comments

Scope of the Report

This interim report covers the period January 1 – June 30, 2026. Figures in parentheses indicate results for the corresponding period of the previous year. Unless otherwise stated, the amount is in KSEK.

Revenue and Results

Net sales for the second quarter amounted to SEK 0K (951) and for the period January-June 0K (2,593). Capitalized development costs amounted to SEK 4,491K (2,307K) during the second quarter. For the period January-June, capitalized development costs amounted to SEK 12,657K (4,498K). The other operating income amounted to SEK 284K (21K) for the second quarter and SEK 378K (4,087K) for the period January-June. The other operating income mostly consisted of grants from the EU and Vinnova, as well as foreign exchange gains on operating items. The decrease compared to the corresponding period last year is primarily due to the absence of net sales and lower grant income.

Operating expenses for the second quarter amounted to SEK 14,752K (10,724K) and SEK 31,328K (19,950K) for the period January-June. The increase compared to the same period last year is primarily due to material one-off items of a non-recurring nature, as well as increased development activities and organizational expansion.

Of the operating expenses during the quarter, other external costs together with personnel costs accounted for the majority, amounting to SEK 14,240K (10,419K). For the period January-June, these costs amounted to SEK 43,012K (39,563K). Personnel costs during the quarter amounted to

SEK 7,786K (3,616K) and for the period January-June SEK 13,570K (6,803K).

The quarter's result before tax amounted to SEK -9,784K (-7,364K). For the period January-June, the result before tax amounted to SEK -18,107K (-8,689K). The difference compared to the corresponding quarter last year is mainly explained by the fact that the comparative period included net sales and significantly higher grant income. In addition, capitalized development costs were significantly higher in the current quarter.

Personnel and Organization

The average number of employees in the company was at the end of the period, 27 (14).

Investments

The total investments in intangible assets, which are mostly development costs, amounted to SEK 4,491K (2,307K) during the quarter and to SEK 12,657K (4,498K) for the period January-June. Capitalized development expenses were lower in the comparative period, partly due to a higher proportion of grant-funded activities and less employees.

During the quarter, amortization of SEK 475K (13K) were recognized and for the period January-June SEK 949K (26K).

The company reports internally developed intangible fixed assets according to the capitalization model. This means that all expenses relating to the production of an internally developed intangible fixed asset are capitalized and written off during the asset's estimated useful life, provided that certain criteria are met.

The company has a total of SEK 68,421K (51,834K) in intangible assets and SEK 0K (32K) in tangible assets on the balance sheet date.

Cash Flow

The quarter's cash flow from current operations before changes in working capital amounted to SEK -9,310K (-7,351K). Investments in intangible assets, capitalized work for own account, have affected the quarter's cash flow by SEK -4,491K (-2,307K).

During the quarter, BeammWave completed three share issues: a directed share issue amounting to SEK 20 million, a directed share issue amounting to SEK 25 million, and a rights issue amounting to approximately SEK 51.7 million. In total, the company raised gross proceeds of approximately SEK 96.7 million before issue costs of approximately SEK 5.0 million, resulting in a net proceeds of approximately SEK 91.8 million.

Total cash flow for the quarter amounted to SEK 80,095K (-10,318K).

Financial Position and Liquidity

As of June 30, 2026, the equity ratio amounted to 96% (91), and equity totaled SEK 206,620K (69,801K). Cash and cash equivalents amounted to SEK 144,598K (22,308K) at the end of the period on June 30, 2026, representing an increase of SEK 64,743K compared to the beginning of the fiscal year. The company had no interest-bearing liabilities as of the balance sheet date.

Other Information

The Company

BeammWave AB is a Swedish public limited company with corporate ID number 559093-1902. The company was founded in 2017 to transform research from LTH (Lund University Faculty of Engineering) into an optimized and commercial mmWave solution for a mass market.

Accounting Principles

This interim report has been prepared in accordance with the Swedish Annual Accounts Act and BFNAR 2012:1 Annual Report and Consolidated Accounts (K3). Applied accounting principles are unchanged from those used in the 2025 Annual Report, which can be found on the company's website. For further information, refer to the company's Annual Report for 2025.

The amounts are rounded to the nearest thousand (KSEK), unless otherwise stated. Due to rounding, figures presented in the financial statements may in some cases not exactly add up to the total and percentages may deviate from the exact percentages. Amounts in parentheses refer to values from the corresponding period in the preceding year.

Transactions with Related Parties

Transactions with related parties have taken place to the same extent as before. For further information, refer to the company's Annual Report for 2025.

Risks and Uncertainties

The company's operations are exposed to a number of factors. Which may pose a risk to the company's operations and result. For a further description of risks refer to the latest Annual Report.

Estimates and Judgments

In order to be able to prepare the financial reports, the Board and company management make assessments and assumptions that affect the company's results and position, as well as of the information provided in general.

Estimates and judgments are evaluated on an ongoing basis and are based on historical experience and other factors, including expectations about future events that are expected to be reasonable under prevailing conditions. Actual results may differ from assessments made. The areas where estimates and assumptions could entail a significant risk of adjustments in reported values for earnings and financial position in future reporting periods are primarily assessments of market conditions and thus the value of the company's fixed assets.

Management of Uncertainties

When it comes to risks linked to the global situation, we are largely unaffected by the conflicts that are ongoing in different parts of the world. Energy prices, the weak Swedish krona and interest rates are also not a concern

for the company. The generally difficult situation on the financial market and the high rate of inflation may, if it persists, affect the company's opportunities for financing.

Auditor's Review

This report has not been reviewed by the company's auditors.

Financial Calendar

2026-11-11 Interim Report Q3 2026
2027-02-17 Year-end Report 2026
2027-05-07 Interim Report Q1 2027

For additional information, please contact:

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The financial reports are available through BeammWave's website beammwave.com/investors/financial-reports/

The Board of Directors and the CEO declares that this interim report provides a true and fair overview of the company's operations, financial position and results and describes significant risks and uncertainties facing the company.

Lund, August 12, 2026



Svein-Egil Nielsen
Chairman of the Board



Markus Törmänen
Board Member



Märta Lewander Xu
Board Member



Gustav Brismark
Board Member



Paula Eninge
Board Member



Fredrik Rosenqvist
Board Member



Pelle Wijk
Board Member



Stefan Svedberg
CEO

Financial Reports in Summary

Income Statement

Income Statement (KSEK)	2026 Q2	2025 Q2	2026 H1	2025 H1	2025 Full year
Operating income					
Net sales	–	951	–	2,593	2,593
Capitalized development expenses	4,491	2,307	12,657	4,498	11,111
Other operating income	284	21	378	4,087	6,289
Total operating income	4,775	3,279	13,035	11,179	19,993
Operating expenses					
Other external costs	-6,454	-6,804	-16,702	-12,755	-26,166
Personnel cost	-7,786	-3,616	-13,570	-6,803	-16,847
Depreciation and impairment of tangible and intangible fixed assets	-475	-13	-949	-26	-1,791
Other operating expenses	-38	-292	-108	-367	-419
Total operating expenses	-14,752	-10,724	-31,328	-19,950	-45,222
Operating profit/loss	-9,977	-7,445	-18,293	-8,771	-25,229
Result from financial items					
Other interest income and similar items	215	104	216	105	470
Interest expenses and similar profit and loss items	-22	-22	-30	-22	-42
Profit/loss before tax	-9,784	-7,364	-18,107	-8,689	-24,802
Income tax	–	–	–	–	–
Profit/loss for the period	-9,784	-7,364	-18,107	-8,689	-24,802
Earnings per share (SEK)					
<i>Earnings per share before and after dilution ¹</i>	<i>-0.21</i>	<i>-0.23</i>	<i>-0.40</i>	<i>-0.28</i>	<i>-0.71</i>
<i>Average number of shares before and after dilution</i>	<i>46,024,735</i>	<i>31,582,156</i>	<i>45,509,663</i>	<i>31,554,356</i>	<i>34,956,918</i>

*Recalculated in accordance with the 1000:1 split (10:1 and 100:1)

Balance Sheet

Balance Sheet (KSEK)		2026 June 30	2025 June 30	2025 Dec 31
ASSETS				
Intangible fixed assets	Note 1	68,421	51,834	56,713
Tangible fixed assets		–	32	0
Other receivables		1,622	1,401	3,169
Cash and cash equivalents		144,598	22,308	79,855
TOTAL ASSETS		214,642	76,526	139,737
EQUITY AND LIABILITIES				
Equity		206,620	69,801	132,849
Accounts payable		2,731	1,926	2,523
Other liabilities		5,290	4,800	4,365
TOTAL EQUITY AND LIABILITIES		214,642	76,526	139,737

Changes in Equity (KSEK)		2026 Q2	2025 Q2	2026 H1	2025 H1
Balance at the beginning of the period		124,526	77,181	132,849	77,624
Profit/loss for the period		-9,784	-7,364	-18,107	-8,689
Transactions with shareholders		91,879	-17	91,879	865
Balance at the end of the period		206,620	69,801	206,620	69,801



Cash Flow

Cash Flow (KSEK)	2026 Q2	2025 Q2	2026 H1	2025 H1	2025 Full year
Cash flow from operating activities					
Operating profit/loss	-9,977	-7,445	-18,293	-8,771	-25,229
Adjustments for items not included in cash flow	475	13	949	26	1,791
Interest paid/received	193	81	186	83	428
Tax paid	-	-	-	-	-
Cash flow from operating activities before changes in working capital	-9,310	-7,351	-17,158	-8,663	-23,011
Changes in working capital	2,017	-643	2,679	-3,538	-4,192
Cash flow from operating activities	-7,293	-7,994	-14,479	-12,201	-27,202
Cash flow from investment activities	-4,491	-2,307	-12,657	-4,498	-11,111
Cash flow from financing activities	91,879	-17	91,879	865	80,026
Cash flow for the period	80,095	-10,318	64,743	-15,834	41,713
Cash and cash equivalents at the beginning of the period	64,503	32,626	79,855	38,142	38,142
Cash and cash equivalents at end of period	144,598	22,308	144,598	22,308	79,855

NOTES	2026	2025	2026	2025	2025
Note 1	Q2	Q2	H1	H1	Full year
Capitalized expenditure on development work and similar works					
Opening balance	64,405	49,527	56,713	47,335	47,335
Additions	4,491	2,307	12,657	4,498	11,111
Depreciation and impairment	-475	-	-949	-	-1,733
Closing accumulated cost	68,421	51,834	68,421	51,834	56,713

Key Figures

Key Figures

BeamWave's financial reports include financial key figures specified in current principles for financial reporting.

Operating Profit/loss

Operating income minus operating expenses.

Equity Ratio

Adjusted equity (equity and untaxed reserves less deferred tax) as a percentage of the balance sheet total.

Quick Ratio

Current assets excluding inventory and work in progress as a percentage of short-term liabilities.

Average Number of Outstanding Shares

Weighted average of the number of shares outstanding during the period.

Earning per Share

Results for the period through the average number of outstanding shares.



Share Capital and Ownership Structure

The company's share capital amounts to SEK 5,277,986.800829 distributed over 53,401,666 outstanding shares of which 3,831,000 A shares and 49,570,666 B shares. Trading in the share takes place on the Nasdaq First North Growth Market. BeamWave's B shares are traded under the short name BEAMMW B and with ISIN code SE0016799068.

Stock Option and Employee Stock Option Programs

The company has eleven (11) ongoing stock option programs and employee stock option programs, with a total of 2,850,310 options. All programs refer to incentives and have been issued at market value, calculated according to the "Black Scholes" formula. If all outstanding warrants are exercised, the dilution effect will amount to approximately 6 percent.

For more information and complete conditions regarding the stock option programs and employee stock option programs, refer to the prospectus that the company issued in connection with the listing issue on page 37 and for others to the annual general meetings in 2023, 2024, 2025, and 2026 respectively.

Name	Purpose	Earliest redemption date	Finale due date	Redemption price (SEK)	Outstanding stock options / employee	No of shares after outstanding stock options / employee stock options	Dilution in case of full subscription
KPO Anst-22	Incitament	5/11/2026	6/30/2028	30.48	50,630	50,630	0.11%
KPO Sty-22	Incitament	5/11/2026	6/30/2028	30.48	67,400	67,400	0.15%
Series 202301	Incitament	6/1/2027	9/30/2027	30.48	67,560	67,560	0.15%
KPO Anst-24	Incitament	7/1/2027	12/31/2027	0.099	303,620	303,620	0.67%
KPO Sty-24	Incitament	7/1/2027	12/31/2027	0.099	202,680	202,680	0.45%
TO Anst-24	Incitament	7/1/2027	7/30/2027	4.68	531,015	531,015	1.16%
KPO Anst-25	Incitament	7/1/2027	12/31/2027	0.099	286,610	286,610	0.63%
TO Anst-25	Incitament	7/1/2027	7/30/2027	4.68	75,825	75,825	0.17%
KPO Anst-26	Incitament	7/1/2029	1/31/2030	0.099	1,045,900	1,045,900	2.27%
KPO Sty-26	Incitament	7/1/2029	1/31/2030	0.099	202,680	202,680	0.45%
TO Anst-26	Incitament	7/1/2029	7/31/2029	22.97	16,890	16,890	0.04%
						2,850,810	5.95%

Ownership Structure

Largest owners as of June 30, 2026

Shareholders who are not registered as owners, but whose shares are placed in insurance and depository accounts, do not appear in this list.

Name (private/company)	Class A shares ²	Class B shares ³	Total Capital	% of Capital	% of Votes
Nowo Fund Management AB		4,973,817	4,973,817	9.31%	5.66%
Nordnet Pension Insurance		4,262,635	4,262,635	7.98%	4.85%
Concejo AB och Concejo Invest AB		4,107,671	4,107,671	7.69%	4.67%
Avanza Pension		2,724,135	2,724,135	5.10%	3.10%
Almi Invest AB och Almi Invest Syd AB		1,825,598	1,825,598	3.42%	2.08%
Per-Olof Brandt	1,377,000	59,000	1,436,000	2.69%	15.74%
Markus Törmänen	1,367,000	50,000	1,417,000	2.65%	15.61%
Stefan Svedberg ¹	592,000	528,000	1,120,000	2.10%	7.34%
Walerud & Partners AB och Bengt Walerud		1,052,838	1,052,838	1.97%	1.20%
Nordea Liv & Pension		870,000	870,000	1.63%	0.99%
Other shareholders	495,000	29,116,972	29,611,972	55.45%	38.77%
Total*	3,831,000	49,570,666	53,401,666	100.00%	100.00%

¹ Stefan Svedberg, CEO, by company and privately

² 10 votes per class A share

³ 1 vote per class B share

*With a total of 4,090 shareholders

Glossary

3GPP (3rd Generation Partnership Project)

Collaborative organization for different organizations and corporations, active in the mobile telecommunications space. The purpose of the organization is to create globally viable technical protocols and specifications for mobile telephony and thereby enable the use of one and the same cell phone virtually all over the world.

ADP1 (Advanced Development Platform)

BeammWave's development platform sold to customers for evaluation and integration.

Beamforming

Beamforming means directing the radio energy in a specific direction. This contrasts with traditional radio communication, where radiation is sent in all directions. Think of a laser pointer versus a light bulb – both emit light, but if you want to illuminate an object at a great distance, you choose the laser pointer. It is easy to understand that it's important you must aim, illuminating next to the object does not help. Beamforming is usually done using several antennas.

Analog Beamforming

In analog beamforming, the signals from the different antennas are combined before being made digital. The industry has assumed that this is an easier and cheaper way.

CPE (Consumer Premises Equipment)

Is the equipment that the operator places in the home of the consumer, to offer internet access without the use of

cable or fiber.

Digital Beamforming

In digital beamforming, just as in its analog counterpart, several antennas are used and combined to get a stronger signal. But in the digital beamforming the combination happens AFTER the signals have been made digital. This means that the computations in the digital domain has more information and thus can achieve higher precision and performance.

Fabless

It means that the company designs and develops semiconductors but does not own its own manufacturing facilities (fabs = fabrication plants). Instead, the actual manufacturing is outsourced to third-party manufacturers, often referred to as "foundries". The business model is called Fabless and is commonly used by the semiconductor industry.

FPGA (Field-Programmable Gate Array)

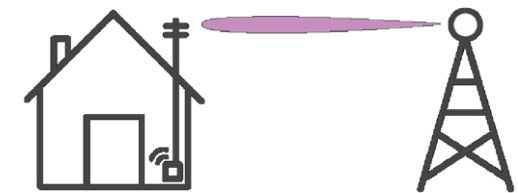
An integrated circuit, used in digital technology, that can be programmed or reprogrammed after it has been manufactured. An FPGA is designed to be flexible and adaptable, allowing users to configure its hardware functionality for a wide range of applications after it's been deployed.

Fixed Wireless Access (FWA)

FWA is a type of wireless communication technology that provides high-speed internet access to fixed locations, such as homes or businesses, without needing traditional

wired connections like fiber or cable. Instead of relying on physical infrastructure like cables, FWA uses radio signals transmitted from a base station or cell tower to a receiver installed at the customer's location.

Installation will of course be much cheaper, while capacity, performance and running costs will be equivalent if 5G mmWave is used for this purpose.



Fixed Wireless Access

Glossary

FR2 (Frequency Range 2)

5G frequency bands above 24 GHz, also known as millimeter wave (mmWave).

Frequency band/frequency range

A frequency in terms of radio communication is simply expressed as the number of oscillations per second and is measured in Hertz. Since radio waves travel at the speed of light, a low frequency means a very long wavelength (as measured from peak-to-peak of the "waves"). FM radio, for example; has frequencies between 87.5 and 108 MHz, and there the wavelength is about 2-3 meters. For different applications such as television, radio, satellite, military, emergency services, cell phones, Wi-Fi, etc. not to collide and interfere with each other, it has been agreed to divide the available frequency range into different frequency bands and then decide how, for what and who may use which frequencies. Until now we have almost exclusively used frequencies below 6GHz. This area is therefore very crowded and if you need more capacity, you must find it elsewhere.

mmWave

mmWave (millimeter wave) refers to a specific band, where the wavelengths are in the order of 10mm and below, of radio frequency spectrum, typically ranging from 24 GHz to 100 GHz. This high-frequency spectrum is known for its ability to carry vast amounts of data at very high speeds, which is why it is a key technology in next-generation wireless communications, particularly 5G networks. This is a large and untapped area and consequently there is a lot of capacity here. The short

wavelength means that the radio waves do not reach very far but are quickly attenuated. This means that the mmWave range requires beamforming to be used for communication purposes.

Satcom (Satellite communications)

A broad term referring to communication systems that use satellites to transmit data, voice, or video signals.

XGMF (XG Mobile Promotion Forum)

is a Japan-based industry forum focused on promoting mobile technologies and fostering collaboration across the mobile ecosystem.



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