

# **ADVA Optical Networking SE**

Germany / Technology Frankfurt Bloomberg: ADV GR ISIN: DE0005103006

Update

RATING PRICE TARGET

BUY € 20.00

Return Potential 33.9% Risk Rating High

## BOTH ADVA AND ADTRAN BEAT Q4 CONSENSUS AHEAD OF MERGER

At the end of January, ADVA announced that owners of more than 60% of its share capital had accepted the ADVA/ADTRAN merger. With this threshold crossed, the merger can now proceed subject to regulatory approval. The relevant US authorities have given permission for the transaction to take place, but final approval is still required in Germany. ADVA's management expect this to be forthcoming in Q2 or Q3 of this year. The proposed merger of ADVA and ADTRAN brings together two fibre optic edge networking specialists in the second year of an edge network investment boom. The shift towards home-based work and leisure caused by the COVID-19 pandemic acted as the initial trigger for accelerating investment at the network edge. US and European government funding of USD190bn in broadband infrastructure investment, the roll-out of 5G, the growth of the Internet of Things, the replacement of Huawei infrastructure, and the emergence of the metaverse look set to ensure that the boom continues without interruption until at least the end of this decade. Ahead of the merger completion both ADVA and ADTRAN have reported Q4/21 numbers which were above consensus expectations. The lower end of ADVA's 2022 sales guidance of €650m to €700m is also above our previous 2022 ADVA-standalone projection of €643m. We have reworked our forecasts and now project five year (2021-26) sales and adjusted EBITDA CAGRs for the merged entity of 11.2% and 26.7%, respectively (previously: 8.7% and 25.5% respectively). We expect sales growth to be fuelled by the demand drivers outlined above as well as by cross-selling opportunities estimated by management at \$60m to \$120m annually. The implied margin expansion stems from the eventual easing of the current components shortage, the ongoing shift in the sales mix towards higher margin customers and products, operating leverage, as well as cost synergies, which management estimates at \$52m. We now see fair value for the ADVA share at €20.00 (previously: €18.00). We maintain our Buy recommendation.

(p.t.o.)

#### **FINANCIAL HISTORY & PROJECTIONS**

	2020	2021	2022E	2023E	2024E	2025E
Revenue (€m)	564.96	603.32	1251.12	1403.34	1550.14	1697.30
Y-o-y growth	9.8%	6.8%	107.4%	12.2%	10.5%	9.5%
EBIT (€m)	27.47	45.30	10.78	130.85	184.51	229.72
EBIT margin	4.9%	7.5%	0.9%	9.3%	11.9%	13.5%
Net income (€m)	20.31	59.22	7.82	97.80	138.01	171.88
EPS (diluted) (€)	0.40	1.15	0.08	1.01	1.40	1.71
DPS (€)	0.00	0.00	0.33	0.33	0.33	0.33
FCF (€m)	38.76	58.98	-13.53	40.08	83.87	127.33
Net gearing	13.0%	-8.5%	-7.4%	-7.8%	-12.4%	-19.6%
Liquid assets (€ m)	64.88	108.99	68.68	68.99	79.96	122.24

#### RISKS

Risks include but are not limited to: higher prices and restricted availability of components due to the semiconductor crisis, currency risk (particularly USD appreciation/GBP depreciation).

#### **COMPANY PROFILE**

ADVA develops, manufactures, and sells optical networking solutions to deliver data, storage, voice, and video services. To date, the company's networking solutions have been deployed in more than 10,000 enterprises and more than 300 carrier networks around the world. Founded in 1994 and headquartered in Munich, Germany, ADVA had 1,973 employees at the end of December 2021.

MARKET DATA	As of 03 Mar 2022
Closing Price	€ 14.94
Shares outstanding	51.45m
Market Capitalisation	€ 768.60m
52-week Range	€ 9.08 / 15.18
Avg. Volume (12 Months)	187,701

Multiples	2021	2022E	2023E
P/E	12.7	179.0	14.5
EV/Sales	1.2	1.1	0.9
EV/EBIT	15.9	123.3	10.2
Div. Yield	0.0%	2.2%	2.2%

#### STOCK OVERVIEW



COMPANY DATA	As of 31 Dec 2021
Liquid Assets	€ 108.90m
Current Assets	€ 335.65m
Intangible Assets	€ 189.90m
Total Assets	€ 601.52m
Current Liabilities	€ 195.53m
Shareholders' Equity	€ 339.91m

### **SHAREHOLDERS**

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EGORA Group	14.5%
JPMorgan Chase & Co	5.9%
UBS AG	5.5%
Janus Henderson Group PLC	4.4%
Free float and other	69.8%

Figure 1: ADVA FY/22 guidance, Q1/22FBe forecast and Q4/21 results

€000's	FY/22 FBe forecast	FY/22 guidance	Q1/22E	FY/21A	FY/21A vs. FY/20A ∆	Q4/21A	Q4/21A vs. Q4/20A ∆	Q4/21E	Q4/21A vs. Q4/21E ∆	FY/20A	Q4/20A
Sales	654,737	650,000 to 700,000	156,031	603,317	6.8%	157,713	12.2%	153,226	2.9%	564,958	140,572
Proforma gross profit	237,009	-	53,050	220,844	10.9%	56,072	2.6%	50,565	10.9%	199,050	54,641
margin (%)	36.2%	-	34.0%	36.6%	-	35.6%	-	33.0%	-	35.2%	38.9%
Proforma selling/mkting costs	-65,474	-	-15,603	-60,453	-	-15,852	-	-14,403	-	-58,130	-13,418
% sales	-10.0%	-	-10.0%	-10.0%	-	-10.1%	-	-9.4%	-	-10.3%	-9.5%
Proforma G&A costs	-35,169	-	-8,738	-34,834	-	-9,390	-	-7,968	-	-35,611	-9,116
% sales	-5.4%	-	-5.6%	-5.8%	-	-6.0%	-	-5.2%	-	-6.3%	-6.5%
Proforma net R&D costs	-77,914	-	-18,568	-76,122	-	-18,539	-	-18,847	-	-74,105	-19,144
% sales	-11.9%	-	-11.9%	-12.6%	-	-11.8%	-	-12.3%	-	-13.1%	-13.6%
Other op. income and costs	3,274	-	780	5,214	98.4%	2,071	50.1%	766	170.4%	2,628	1,380
% sales	0.5%	-	0.5%	0.9%	-	1.3%	-	0.5%	-	0.5%	1.0%
Proforma EBIT	61,726	39,000 to 70,000	10,922	54,649	61.5%	14,362	0.1%	10,113	42.0%	33,832	14,343
margin (%)	9.4%	6% to 10%	7.0%	9.1%	-	9.1%	-	6.6%	-	6.0%	10.2%
Reported EBIT	55,556	-	9,532	45,295	64.9%	11,190	-14.5%	6,836	63.7%	27,473	13,085
margin (%)	8.5%	-	6.1%	7.5%	-	7.1%	_	4.5%	-	4.9%	9.3%

Source: ADVA Optical Networking SE; First Berlin Equity Research estimates

ADVA Q4/21 proforma EBIT 7.2% above consensus estimate ADVA's Q4/21 sales of €157.7m (FBe: €153.2m; Q4/20: €140.6m) and proformaEBIT of €14.4m (FBe: €10.1m; Q4/20: €14.3m) were respectively 2.9% and 42.0% above our forecasts. Q4/21 sales were also 2.1% above the consensus forecast of €154.5m and 7.2% above the consensus proforma EBIT estimate of €13.4m.

The semiconductor shortage began hampering ADVA's deliveries to customers at the beginning of 2021. Each quarter during 2021, sales of ca. €10m to €20m were delayed until the following period. The components shortage had only a limited impact on profitability during H1/21. Indeed, the proforma gross margins of 38.3% in both Q1/21 and Q2/21 were the highest figures recorded by the company for this metric since H1/13. But in Q3/21, the semiconductor shortage began to bite into profitability, and the proforma gross margin narrowed to 34.4%. We had assumed a further narrowing of the proforma gross margin to 33.0% in Q4/21 but the outcome was 35.6%. As figure 1 shows, this was the main reason why proforma EBIT was €4.2m above our forecast.

Figure 2: Geographic sales breakdown

€ 000's	Q1/20	Q2/20	Q3/20	Q4/20	FY/20	Q1/21	Q2/21	Q3/21	Q4/21	FY/21
Europe, Middle East and Africa	65,288	75,835	79,365	86,912	308,800	96,237	96,363	88,196	100,597	381,393
y-o-y change (%)	-4.4%	6.2%	2.0%	6.6%	3.3%	47.4%	27.1%	11.1%	15.7%	23.5%
sequential change (%)	-19.9%	16.2%	4.7%	9.5%	3.3%	10.7%	0.1%	-8.5%	14.1%	23.5%
Americas	55,469	36,700	52,519	38,925	201,600	36,703	41,683	48,272	39,378	166,036
y-o-y change (%)	14.8%	-29.6%	-5.5%	-32.7%	-5.7%	-33.8%	13.6%	-8.1%	1.2%	-17.6%
sequential change (%)	-4.0%	-33.8%	43.1%	-48.8%	-5.7%	-5.9%	13.6%	15.8%	-18.4%	-17.6%
Asia Pacific	11,943	13,195	14,817	14,763	54,600	11,560	11,354	15,332	17,725	55,972
y-o-y change (%)	3.0%	36.0%	35.9%	25.1%	24.1%	-3.2%	-13.9%	3.5%	20.1%	2.5%
sequential change (%)	1.2%	10.5%	12.3%	-0.4%	24.1%	-21.4%	-1.8%	35.0%	15.6%	2.5%
Total	132,700	145,000	146,700	140,600	565,000	144,500	149,400	151,800	157,700	603,400
y-o-y change (%)	3.5%	8.9%	1.7%	-6.9%	1.5%	8.9%	3.0%	3.5%	12.2%	6.8%
sequential change (%)	-12.2%	9.3%	1.2%	-4.2%	1.5%	2.8%	3.4%	1.6%	3.9%	6.8%

Source: ADVA Optical Networking SE

Underlying improvement in profitability due to progress of business transformation

As was evident from the H1/21 numbers, and as we discuss below, ADVA's underlying profitability (excluding the impact of the components shortage) has been improving in recent quarters. The main driver of this margin expansion has been the progress of the business transformation presented at the capital markets day in March 2021. In Q4/21 the trend towards higher margins was strengthened by a shift in the sales mix (see figure 2) towards EMEA (sequential sales growth: +14.1%) and away from the Americas (sequential sales growth: -18.4%). ADVA's sales in the Americas are in general less profitable than in the EMEA region.

During the analysts' conference call following the results, management indicated that ADVA's customers in the Americas have been harder hit by the components shortage than customers in the EMEA and that this explained the divergence in sales growth during Q4/21 and FY/21.

At its capital markets day in March 2021, ADVA's management identified the following medium term sales growth and margin expansion drivers:

- Sales share of software and services business to rise from 20% in 2020 to 30% in 2023;
- Sales share arising from ADVA's verticalisation initiative, including components such as pluggable aggregation devices, to rise to 15% by 2025.
- Accelerating traction in growth verticals to raise share of higher-margin sales with non-communication service provider customers from 30% in 2020 to 40% by 2023;
- 5G roll-out to drive rapid growth in ADVA's market-leading network synchronisation business area (ca. 5% of 2020 sales);
- Market share gains from Huawei.

Software as a percentage of sales rose from 20% to 23% in 2020 and in 2021 reached 25%. The Ensemble edge networking software suite was again an important growth driver. Management also reported that non-communication service provider customers accounted for a disproportionately high share of sales growth during FY/21 with private and security-relevant networks playing a growing role. Components and pluggable aggregation devices such as the MicroMux/NanoMux product families cater to a largely unserved niche market namely smooth upgrades to legacy infrastructure within tight space and cost constraints. The average gross margin on these products is likely to be well above the 2021 group proforma figure of 36.6%. ADVA's development of new products in this area should also furnish it with components it previously sourced externally – thereby boosting margins further.

**FY/21 revenue, profitability, cash generation all at record levels** Despite the impact of the components shortage on business in H2/21, FY/21 revenue, proforma margin and cash generation were all at record levels. FY/21 free cashflow of €59.0m and proceeds from option exercise of €6.6m turned a net debt position (including leasing and pension liabilities) of €34.1m at end FY/20 into a net cash position of €28.8m at end FY/21. The end FY/21 order backlog was also at a record level and according to management was "massively" above the end FY/20 figure.

ADVA management expect "peak impact" from components shortage in H1/22 Management guidance for 2022 is for sales of €650m to €700m, implying growth of 7.5% to 16.0% and a proforma EBIT margin of 6-10%. Our previous ADVA-standalone 2022 sales forecast was €643m. 2022 guidance is tempered by the ongoing components shortage. During the analysts' conference call following the release of the FY/21 results, management stated that it was "too early to be aggressive on guidance" and that the components supply issue is currently "not getting better." Management did however identify the current quarter and Q2/22 as likely to see "the peak of the impact."

## ADTRAN's Q4/21 non-GAAP EBIT in the black - guidance was for a negative result

ADTRAN's Q4/21 results were negatively affected by the components shortage but as figure 3 shows, the issue was not as acute as implied by the guidance given with the Q3/21 results in early November. Sales climbed 18.5% to \$154.2m (guidance: \$136m - \$146m; Q4/20: \$140.6m) while the non-GAAP operating result (equivalent to ADVA's proforma EBIT) came in at \$1.4m (guidance: \$-1.9m to \$-5.4m; Q4/20: \$4.3m). Q4/21 sales growth was driven by the international business which jumped 53.4% to \$52.6m (Q4/20: \$34.3m). Revenue growth from international tier 1 operators was 76% and was mainly attributable to two European operators and one tier 1 operator with properties in South America. Sales growth of 6.1% in the US was driven by demand for fibre broadband solutions from a diverse mix of large and small service providers (over half of 2021 US revenues derived from tier 3 operators).

Figure 3: ADTRAN Q1/22 guidance and Q4/21 results

USD 000's	Q1/22 guidance*	Q4/21A	Q4/21 guidance*	Δ%	Q4/20A	Δ%
Sales	150,000 to 158,000	154,158	136,000 to 146,000	5.6% to -13.4%	130,129	18.5%
GAAP gross profit	-	54,435	-	n.a.	53,517	1.7%
margin (%)	-	35.3%	-	-	41.1%	-
Stock-based compensation expense	-	-154	-	-	-122	26.2%
Restructuring expenses	-	0	-	-	-166	-100.0%
Settlement income	-	0	-	-	0	n.a.
Non-GAAP gross profit	52,500 to 58,460	54,589	47,600 to 51,100	6.8% to 14.7%	53,805	-
margin (%)	35-37%	35.4%	35.0%	-	41.3%	-
GAAP operating expenses		-61,673			-56,841	
GAAP operating result	-	-7,238	-	-	-3,324	n.a.
margin (%)	-	-4.7%	-	-	-2.6%	-
Acquisition-related expenses, amortisation etc.	-	-6,529	-	-	-1,051	521.2%
Stock-based compensation expense	-	-1,869	-	-	-1,656	12.9%
Restructuring expenses	-	-102	-	-	-2,415	-95.8%
Settlement income	-	0	-	-	0	n.a.
Deferred compensation adjustments	-	2	-	-	-2172	n.a.
Non-GAAP operating expenses	-53,000 to -54,000	-53,175	-52,000 to -53,000	0.3% to 2.3%	-49,547	7.3%
Non-GAAP operating result	-1,500 to 5,460	1,414	-1,900 to -5,400	-1.4% to -4.0%	4,258	-66.8%
margin (%)	-1.0% to 3.5%	0.9%	-1.4% to -4.0%	-	3.3%	-

Source: ADTRAN, Inc.

4 March 2022

As figure 3 shows, ADTRAN's management is guiding to Q1/22 results at a similar level to the Q4/21 figures. Management has not given FY/22 guidance but did state that H2/22 gross margins are expected to be above the H1/22 level.

Following the release of Q4/21 numbers by ADVA and ADTRAN, we have reworked our forecasts and now project five year (2021-26) sales and adjusted EBITDA CAGRs for the merged entity of 11.2% and 26.7% respectively (previously: 8.7% and 25.5% respectively). We expect sales growth to be fuelled by the demand drivers outlined above as well as by cross-selling opportunities (management puts these at \$60m - \$120m annually). The implied margin expansion stems from the eventual easing of the current components shortage, the ongoing shift in the sales mix towards higher margin customers and products, operating leverage, as well as cost synergies, which management estimates at \$52m.

## Price target raised to €20.00 (previously: €18.00).Buy recommendation maintained

Our 2022 forecast incorporates \$22.3m (€19.8m) of transaction costs and \$24.9m (€22.1m) of costs relating to the replacement of ADVA stock options and the modification of ADTRAN performance stock units. These costs are detailed in Form S-4. The proforma end June 2021 balance sheet in Form S-4 shows a net \$479.4m increase in intangible assets over and above the combined standalone balance sheets. This reflects developed technology, customer backlog, customer relationships and brand value identified at ADVA.

We have assumed that this figure is written off against the combined entity's opening balance sheet and so have not shown any related depreciation in our forecasts from 2022. Under the terms of the merger, each ADVA share will be exchanged for 0.8244x the value of each ADTRAN share. Based on an updated DCF valuation of the combined entity, we value the ADTRAN share at USD26.72. Multiplying this figure by 0.8244 and dividing by the current EURUSD exchange rate of 1.10 produces a value for the ADVA share of €20.00 (previously: €18.00). We maintain our Buy recommendation.

Figure 4: Changes to forecasts

€000's		2022E			2023E			2024E			2025E			2026E	
	New	Old	$\Delta$ %	New	Old	$\Delta$ %									
Revenues	1,251,119	1,168,717	7.1%	1,403,343	1,279,150	9.7%	1,550,138	1,393,029	11.3%	1,697,301	1,504,472	12.8%	1,833,086	1,616,643	13.4%
Cost of goods sold	-791,640	-734,143	-	-815,081	-743,375	-	-875,120	-787,596	-	-945,456	-836,222	-	-1,021,092	-890,935	-
Gross profit	459,479	434,575	5.7%	588,262	535,775	9.8%	675,018	605,434	11.5%	751,846	668,250	12.5%	811,993	725,709	11.9%
margin (%)	36.7%	37.2%	-	41.9%	41.9%	-	43.5%	43.5%	-	44.3%	44.4%	-	44.3%	44.9%	-
S,G & A costs	-260,096	-250,948	-	-225,281	-219,054	-	-251,227	-223,035	-	-264,404	-230,541	-	-281,012	-247,797	-
R&D costs	-191,276	-192,132	-	-235,091	-202,744	-	-242,504	-209,462	-	-261,228	-223,411	-	-282,127	-241,208	-
Net other op. inc.	2,673	2,578	3.7%	2,955	2,955	0.0%	3,221	3,221	0.0%	3,511	3,511	0.0%	3,792	3,639	4.2%
EBIT	10,780	-5,927	n.a.	130,845	116,932	11.9%	184,509	176,158	4.7%	229,724	217,808	5.5%	252,646	240,343	5.1%
margin (%)	0.9%	-0.5%	-	9.3%	9.1%	-	11.9%	12.6%	-	13.5%	14.5%	-	13.8%	14.9%	-
Net interest	-353	-536	-	-439	-580	-	-494	-636	-	-545	-695	-	-598	-751	-
Pre-tax income (EBT)	10,427	-6,464	n.a.	130,406	116,352	12.1%	184,015	175,522	4.8%	229,178	217,112	5.6%	252,049	239,592	5.2%
Income taxes	-2,607	1,616	-	-32,601	-29,088	-	-46,004	-43,881	-	-57,295	-54,278	-	-63,012	-59,898	-
Net income / loss	7,820	-4,848	n.a.	97,804	87,264	12.1%	138,011	131,642	4.8%	171,884	162,834	5.6%	189,037	179,694	5.2%
Diluted EPS (in €)	0.08	-0.05	n.a.	1.01	0.92	9.4%	1.40	1.37	1.8%	1.71	1.67	2.2%	1.87	1.84	1.7%
Adjusted EBITDA	72,071	55,540	29.8%	180,674	161,761	11.7%	240,752	228,545	5.3%	292,372	268,211	9.0%	320,888	294,649	8.9%
margin (%)	5.8%	4.8%	-	12.9%	12.6%	-	15.5%	16.4%	-	17.2%	17.8%	-	17.5%	18.2%	-

Source: First Berlin Equity Research estimates

Figure 5: DCF model

DCF valuation model								
All figures in USD 000s	2022E	2023E	2024E	2025E	2026E	2027E	2028E	2029E
Net sales	1,384,457	1,545,502	1,707,167	1,869,238	2,018,777	2,170,102	2,332,820	2,507,793
NOPLAT	9,400	114,559	161,543	201,131	221,200	237,889	255,841	245,736
+ depreciation & amortisation	40,369	44,036	49,800	55,639	60,731	65,447	70,285	75,481
Stock compensation	27,454	10,840	12,141	13,355	14,423	15,577	16,823	18,169
Net operating cash flow	77,223	169,436	223,485	270,125	296,354	318,913	342,949	339,386
- total investments (CAPEX and WC)	-91,445	-118,452	-121,567	-118,062	-110,092	-117,464	-127,020	-137,343
Capital expenditures	-54,055	-66,342	-70,401	-72,853	-76,329	-81,631	-87,717	-94,259
Working capital	-37,391	-52,110	-51,167	-45,209	-33,763	-35,832	-39,303	-43,084
Free cash flows (FCF)	-14,222	50,984	101,917	152,063	186,263	201,449	215,930	202,043
PV of FCF's	-13,314	44,071	81,347	112,069	126,754	126,582	125,282	108,241

All figures in thousands	
PV of FCFs in explicit period (2022E-2035E)	1,356,476
PV of FCFs in terminal period	1,199,626
Enterprise value (EV)	2,556,102
+ Net cash / - net debt	-77,445
+ PV cash proceeds of future option exercise	62,549
Shareholder value	2,696,095
Current shares outstanding	96,121
+ PV no shares issued against future option exercise	4,783
Proforma no shares	100,904
Fair value per ADTRAN share in USD	26.72

WACC	8.3%
Cost of equity	9.5%
Pre-tax cost of debt	2.0%
Tax rate	25.0%
After-tax cost of debt	1.5%
Share of equity capital	85.0%
Share of debt capital	15.0%
Fair value per ADTRAN share in USD	26.72
Fair value per ADVA share in EUR	20.00

Terminal growth rate								
	1.5%	2.0%	2.5%	3.0%	3.5%	4.0%	4.5%	
6.80%	36.26	36.35	36.45	36.58	36.75	36.98	37.31	
7.30%	32.85	32.77	32.68	32.56	32.41	32.21	31.95	
7.80%	29.99	29.81	29.60	29.35	29.03	28.64	28.12	
8.30%	27.55	27.32	27.04	26.72	26.33	25.84	25.23	
8.80%	25.45	25.19	24.89	24.53	24.10	23.59	22.96	
9.30%	23.63	23.35	23.04	22.67	22.24	21.73	21.11	
9.80%	22.03	21.75	21.44	21.07	20.66	20.16	19.58	

<sup>\*</sup> for layout purposes the model shows numbers only to 2029, but runs until 2035

Source: First Berlin Equity Research estimates

## **INCOME STATEMENT**

All figures in EUR '000	2020A	2021A	2022E	2023E	2024E	2025E	2026E
Revenues	564,958	603,317	1,251,119	1,403,343	1,550,138	1,697,301	1,833,086
Cost of goods sold	-368,416	-384,759	-791,640	-815,081	-875,120	-945,456	-1,021,092
Gross profit	196,542	218,558	459,479	588,262	675,018	751,846	811,993
Sales, general & admin. expenses	-96,700	-101,754	-260,096	-225,281	-251,227	-264,404	-281,012
Research and development expenses	-74,997	-76,723	-191,276	-235,091	-242,504	-261,228	-282,127
Net other operating income	2,628	5,214	2,673	2,955	3,221	3,511	3,792
Operating income (EBIT)	27,473	45,295	10,780	130,845	184,509	229,724	252,646
Net interest income/(expense)	-2,607	-1,735	-353	-439	-494	-545	-598
Other financial gains and losses,net	-47	2,676	0	0	0	0	0
Pre-tax income (EBT)	24,819	46,236	10,427	130,406	184,015	229,178	252,049
Income taxes	-4,505	12,982	-2,607	-32,601	-46,004	-57,295	-63,012
Net income / loss	20,314	59,218	7,820	97,804	138,011	171,884	189,037
Diluted EPS (in €)	0.40	1.15	0.08	1.01	1.40	1.71	1.87
Adjusted EBITDA	54,487	78,501	72,071	180,674	240,752	292,372	320,888
Ratios							
Gross margin	34.8%	36.2%	36.7%	41.9%	43.5%	44.3%	44.3%
Adjusted EBITDA margin on revenues	9.6%	13.0%	5.8%	12.9%	15.5%	17.2%	17.5%
EBIT margin on revenues	4.9%	7.5%	0.9%	9.3%	11.9%	13.5%	13.8%
Net margin on revenues	3.6%	9.8%	0.6%	7.0%	8.9%	10.1%	10.3%
Tax rate	-18.2%	28.1%	-25.0%	-25.0%	-25.0%	-25.0%	-25.0%
Expenses as % of revenues							
Sales, general & admin. expenses	17.1%	16.9%	20.8%	16.1%	16.2%	15.6%	15.3%
Research and development expenses	13.3%	12.7%	15.3%	16.8%	15.6%	15.4%	15.4%
Y-Y Growth							
Revenues	1.5%	6.8%	107.4%	12.2%	10.5%	9.5%	8.0%
Operating income	128.9%	64.9%	-76.2%	1113.7%	41.0%	24.5%	10.0%
Net income/ loss	188.3%	191.5%	-86.8%	1150.7%	41.1%	24.5%	10.0%

## **BALANCE SHEET**

4 March 2022

All figures in EUR '000	2020A	2021A	2022E	2023E	2024E	2025E	2026E
Assets							
Current assets, total	247,575	335,653	653,617	734,013	815,006	927,915	1,056,520
Cash and cash equivalents	64,881	108,987	68,676	68,988	79,957	122,243	186,191
Restricted cash	0	0	20	16	15	148	363
Receivables	83,880	82,972	271,273	311,167	344,814	378,157	408,410
Inventories	90,124	129,205	287,733	324,717	358,229	392,370	423,760
Other current assets	8,690	14,489	25,915	29,124	31,991	34,997	37,796
Non-current assets, total	252,397	265,871	700,370	731,526	757,984	782,020	804,536
Property, plant & equipment	31,235	33,326	94,911	111,530	127,339	139,641	150,812
Goodwill	67,036	71,595	418,215	420,218	420,218	420,218	420,218
Other intangible assets	118,913	118,308	51,482	55,819	58,716	62,044	65,036
Deferred tax assets	7,233	15,339	17,960	20,281	22,389	24,527	26,489
Other non-current assets	27,980	27,303	117,802	123,678	129,323	135,590	141,981
Total assets	499,972	601,524	1,353,988	1,465,539	1,572,990	1,709,935	1,861,057
Shareholders' equity & debt							
Current liabilities, total	130,638	195,532	353,298	376,969	379,446	383,686	389,794
Financial liabilities	15,492	25,289	2,587	-2,154	-20,692	-44,156	-71,015
Accounts payable	44,151	83,223	185,307	195,462	200,102	210,613	227,462
Tax liabilities	1,808	5,769	13,180	14,879	16,421	17,989	19,428
Other current liabilities	69,187	81,251	152,225	168,782	183,614	199,241	213,920
Long-term liabilities, total	106,116	66,080	254,295	271,983	270,651	263,941	252,629
Lease liabilities	21,998	19,013	21,998	21,998	21,998	21,998	21,998
Financial liabilities	47,129	22,518	3,433	-2,859	-27,464	-58,608	-94,258
Provisions for pensions	8,545	7,401	21,852	24,690	27,270	29,880	32,270
Other provisions	1,558	2,440	1,806	1,986	2,165	2,360	2,549
Deferred tax liabilities	13,522	2,151	139,158	141,478	142,951	144,647	146,290
Other non-current liabilities	13,364	12,557	89,852	108,674	127,893	148,022	168,327
Shareholders' equity	263,218	339,912	746,394	816,587	922,893	1,062,308	1,218,634
Total consolidated equity and debt	499,972	601,524	1,353,988	1,465,539	1,572,990	1,709,935	1,861,057
Ratios							
Net debt	34,090	-28,765	-40,823	-49,328	-100,858	-195,275	-319,558
Net gearing	13.0%	-8.5%	-5.5%	-6.0%	-10.9%	-18.4%	-26.2%
Book value per share (in €)	5.24	6.71	7.68	8.25	9.17	10.51	12.02
Return on equity (ROE)	2.7%	19.6%	1.4%	12.5%	15.9%	17.3%	16.6%

ADVA Optical Networking SE



## **CASH FLOW STATEMENT**

All figures in EUR '000	2020A	2021A	2022E	2023E	2024E	2025E	2026E
Income before tax	24,819	46,236	10,427	130,406	184,015	229,178	252,049
Depreciation and amortisation	64,729	70,407	36,481	39,986	45,220	50,521	55,145
Changes in working capital	11,968	6,511	-33,790	-47,316	-46,460	-41,050	-30,657
Income tax paid	-2,099	-1,911	-2,607	-32,601	-46,004	-57,295	-63,012
Other adjustments inc. stock compensation	-2,274	2,010	24,810	9,843	11,024	12,126	13,097
Operating cash flow	97,143	123,253	35,321	100,317	147,795	193,481	226,620
Investments in PP&E	-13,648	-15,899	-35,587	-43,287	-46,866	-47,291	-49,469
Investments in intangibles	-44,740	-48,377	-13,261	-16,953	-17,059	-18,861	-19,839
Free cash flow	38,755	58,977	-13,527	40,077	83,870	127,329	157,313
Acquisitions & disposals, net	0	0	0	0	0	0	0
Other	34	5	0	0	0	0	0
Investment cash flow	-58,354	-64,271	-48,849	-60,240	-63,925	-66,152	-69,308
Debt financing, net	-18,500	-15,000	-62,271	-8,329	-40,562	-51,999	-60,119
Lease liabilities	-6,986	-4,627	0	0	0	0	0
Equity financing, exercise of stock options	1,273	6,608	0	0	0	0	0
Dividends paid	0	0	-15,635	-31,768	-32,340	-32,912	-33,030
Other	-2,553	-1,780	0	0	0	0	0
Financing cash flow	-26,766	-14,799	-77,907	-40,097	-72,902	-84,911	-93,149
FOREX & other effects	-1,405	-77	0	329	0	0	0
Net cash flows	10,618	44,106	-91,434	309	10,967	42,419	64,164
Cash, start of the year	54,263	64,881	160,130	68,695	69,005	79,972	122,391
Cash, end of the year	64,881	108,987	68,695	69,005	79,972	122,391	186,554
EBITDA/share (in €)	1.08	1.54	0.75	1.86	2.43	2.90	3.18
Y-Y Growth							
Operating cash flow	45.2%	26.9%	-71.3%	184.0%	47.3%	30.9%	17.1%
Free cash flow	503.8%	52.2%	n.m.	n.m.	109.3%	51.8%	23.5%
EBITDA/share	-25.4%	43.2%	-51.4%	147.9%	30.9%	19.3%	9.4%



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Category		1	2 > 2 billion	
Current market	capitalisation (in €)	0 - 2 billion		
Strong Buy <sup>1</sup>	An expected favourable price trend of:	> 50%	> 30%	
Buy	An expected favourable price trend of:	> 25%	> 15%	
Add	An expected favourable price trend of:	0% to 25%	0% to 15%	
Reduce	An expected negative price trend of:	0% to -15%	0% to -10%	
Sell	An expected negative price trend of:	< -15%	< -10%	

<sup>&</sup>lt;sup>1</sup> The expected price trend is in combination with sizable confidence in the quality and forecast security of management.

Our recommendation system places each company into one of two market capitalisation categories. Category 1 companies have a market capitalisation of  $\in 0 - \in 2$  billion, and Category 2 companies have a market capitalisation of  $> \in 2$  billion. The expected return thresholds underlying our recommendation system are lower for Category 2 companies than for Category 1 companies. This reflects the generally lower level of risk associated with higher market capitalisation companies.

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Report No.:	Date of publication	Previous day closing price	Recommendation	Price target
Initial Report	17 September 2019	€6.53	Buy	€8.50
41	$\downarrow$	<b>↓</b>	<b>↓</b>	1
5	27 October 2020	€6.34	Add	€8.20
6	12 January 2021	€8.05	Buy	€11.00
7	27 April 2021	€10.04	Buy	€13.00
8	27 July 2021	€12.96	Buy	€14.40
9	2 September 2021	€13.72	Add	€14.40
10	10 January 2022	€13.64	Buy	€18.00
10	Today	€14.94	Buy	€20.00

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