
VISUALIZE THE FUTURE



Fiscal Year Ended March 31, 2019

Results Briefing

Digital Media Professionals Inc.

Tuesday, May 14, 2019

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Please be aware of the possibility that actual performance and results may differ considerably due to a variety of factors.

1

Explanation of Results, Fiscal Year Ended March 31, 2019

2

Business Forecast, Fiscal Year Ending March 31, 2020

3

Priority Measures and Blueprint for Future Growth

1

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2

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3

Priority Measures and Blueprint for Future Growth

Semiconductor Industry Trends

- The semiconductor market, which slumped in the second half of 2018 due to various temporary factors, such as US-China frictions, slumps in sales of new models of iPhone, Intel 10n line start up delays, and the backlash to excessive investment in data centers due to Trump tax cuts, is expected to bottom out in mid-2019 and recover.
- The market growth of data centers, cars, and industrial equipment along with the spread and expansion of AI, IoT, and 5G, are driving demand for semiconductors.
- Volume of data generated by manufacturing industry, etc., has rapidly increased and thus edge computing, which can efficiently process data, has accelerated. Low power consumption, short delays, and cost efficiency are the key.
- Self-development by large IT vendors and set vendors of domain specific semiconductors optimized for their apps is active. FPGAs and ASICs are used a lot.
- Demand for FPGAs for cloud and data centers is on the rise. Xilinx leads the market.

● Sales increase in LSI business made up for decrease in royalties income

LSI business

Sales ¥364 million

YoY change +¥214 million

- Contribution of increase in shipping volume of graphics processing LSI “RS1” and commencement of shipping FPGA with on-board ZIA

IP core license business

Sales ¥230 million

YoY change -¥96 million

- Decrease in running royalties from game console customers
- Multiple execution of new license contracts of ZIA edge AI IP "DV series"

Professional services business

Sales ¥491 million

YoY change -¥6 million

- Increase in sales from AI-related projects (software, algorithms development, etc.)
- Stripping of previous fiscal year’s additional revenue from NEDO* for accelerating power-saving AI engines project

NEDO: New Energy and Industrial Technology Development Organization

Though the initial plan was not achieved,
revenue increased due to steady shipment of LSI and growth of the AI business

Transformation of business portfolio aimed at growth has greatly progressed

(Unit: million yen)	FY 03/2018	FY 03/2019	Increase-decrease amount
Net sales	973	1,086	113
Operating income	69	28	-41
Ordinary income	66	33	-33
Net income	109	35	-74

Decrease in income due to decrease in sales from IP licensing business, which is relatively profitable

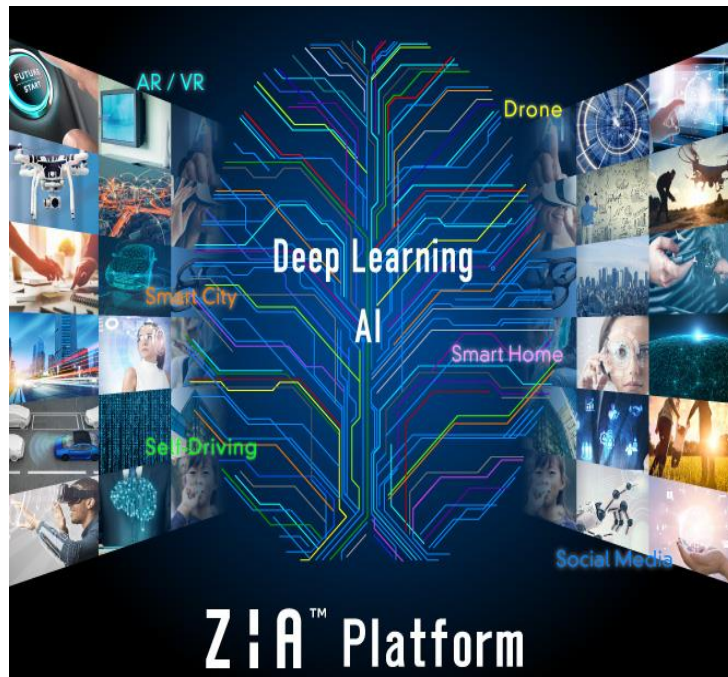
Sound financial condition has been maintained

(Unit: million yen)	End of March 2018	End of March 2019	Increase-decrease amount
Current assets	1,774	2,063	289
Non-current assets	346	320	-26
Total assets	2,121	2,383	262
Current liabilities	228	366	138
Non-current liabilities	18	18	0
Total liabilities	247	385	138
Total net assets	1,873	1,998	125
Total liabilities and net assets	2,121	2,383	262

Full set of ZIA software, IP, and module products

Launch of ZIA DV500 AI Processor IP sales (announced on April 25, 2018)

Launch of ZIA C2/C3 edge AI module sales (announced on September 18, 2018)



Software Product

ZIA™ Classifier Image classification engine

Hardware IP Products

ZIA™ DV700 AI processor for edge computing

ZIA™ DV500 Small size AI processor for edge computing

NEW

Module Products

ZIA™ C2

ZIA™ C3

NEW

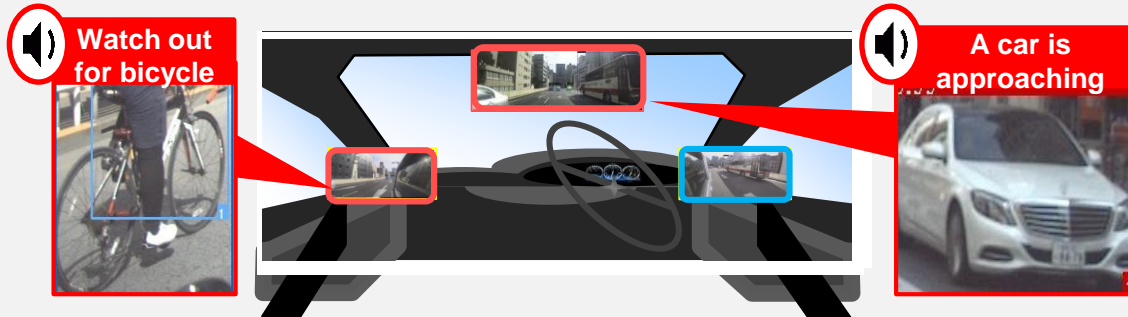
ZIA DV500 AI Processor IP

Ultra-small AI processor specializing in object recognition

Optimized for scene understanding and object recognition for industrial equipment and automobile driving assistance systems

→ Size reduction achieved while maintaining high processing performance

Adoption example: UKC smart mirror (CMS)



Automatic recognition and warning of humans, bicycles, cars, etc.

- No restriction of field of vision by luggage in vehicle or vehicle body
- Not affected by weather and provides greater visibility than regular mirrors



International Automotive Electronics Technology Expo
UKC Holdings Booth (January 2019)

ZIA C2/C3 edge AI module

AI processors for edge computing utilizing FPGA with on-board DV700

- Compact, low power consumption and high performance AI inference processing module, mounting DMP DV700 to FPGA
- Mount Intel FPGA and Xilinx FPGA to cover industry-leading FPGAs



- DMP DV700 AI processor IP
- FPGA: Intel Arria (C2), Xilinx Zynq (C3)
- Dual core ARM processor
- 2GB main memory / 16GB flash memory
- Dimensions: 90 mm x 90 mm

Main features



Flexibility

Hardware can be updated



Advanced AI inference processing

High performance and accuracy with "ZIA™ DV700"



High usability

Supports Caffe and Keras AI development frameworks



Power-conserving and fanless

No need for cooling fans, which tend to fail and restrict structural design



Long-term supply

Module utilizes FPGAs with solid track records of long-term supply for industrial equipment

Collaboration with PALTEK

Collaboration on edge AI solution utilizing Xilinx FPGA (August 2018)

Distributorship agreement signed for ZIA C3 (November 2018)

- Support development of FA cameras, robots, construction machinery, agricultural machinery, inspection equipment, medical equipment, etc., with integrated ZIA C3 AI

Technical collaboration with Macnica and

Cross Compass (September 2018)

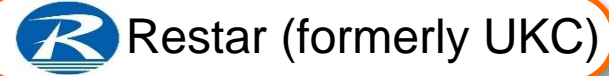
Provision of integrated solutions for manufacturing industry from AI generation to edge AI implementation

- Support "Manufacturing-IX", integrated AI environment for manufacturing industry designed by Cross Compass, with ZIA C2/C3
- Establish edge AI systems in a short period of time in a wide range of fields, such as factory automation, autonomous robots in distribution, and healthcare

DMP AI ecosystem

DMP AI portfolio

System development partner



Module sales partners

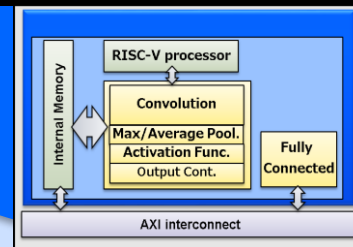


AI solution partners



IP Core Product

Z!A™ DV500/DV700



Module Product

Z!A™ C2/C3



Software Product

Z!A™ Classifier

Object Recognition / Classification

Deep learning inference engine

Learned model

Computer vision

Optimized library

1

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2

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3

Priority Measures and Blueprint for Future Growth

- Net sales will increase with increase in RS1 sales volume and expansion of AI products and services
- Profits will level off due to increase in personnel for strengthening development system

(Unit: million yen)	FY 03/2019 (Actual)	FY 03/2020 (Forecast)	YoY change	
			Increase- decrease amount	Increase- decrease rate (%)
Net sales	1,086	1,300	214	19.6
Operating income	28	30	2	3.6
Ordinary income	33	30	-3	-9.9
Net income	35	20	-15	-43.1

Sales of ¥172 million from development commissioned by NEDO are included in net sales for fiscal year ended March 31, 2019

1

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2

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3

Priority Measures and Blueprint for Future Growth

Expanding RS1 Business

- Supporting launch of customers' products shipped to pachinko parlors from this fiscal year
- Promoting multi-platform strategy, including for arcade games
- Expanding sales aimed to become industry-standard platform through collaboration with channel partners

Expanding Portfolio and Sales of AI Products

- Strengthening line-up of ZIA hardware IP and software products
- Developing high value-added module products
- Expanding ecosystem with partner companies and strengthening capacity to provide solutions

Strengthening Collaboration with Customers and Cultivating Specific Fields

- Developing autonomous driving and automation systems in the mobility field
- Developing labor-saving and automation systems in the industrial equipment and robotics fields

Now Producing in Volume and Shipping RS1 Next-Generation Graphics Processor



- **Large customers start shipping products to pachinko parlors from this fiscal year**
- Aiming to be the market leader by the industry's first integrated pachinko/pachislot chip
- Supporting multi-platform including for arcade games

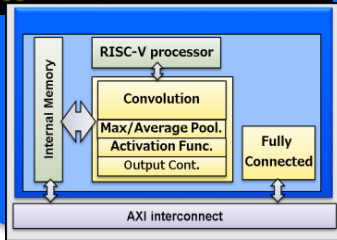
Industry Trends

- The "Entertainment and Amusement Trade and the Implementation Rules for the Entertainment and Amusement Trades Rationalizing Act" took effect in February 2018, and 2019 is a transition period to new regulation (type 6) machines.
- Replacement demand to new regulation machines is expected along with the removal of previous regulation (type 5) machines by expiration of certification in January 2021. However, introduction to pachinko parlors of game machines is expected to temporarily stagnate due to the Olympics and Paralympic Games being held in summer of 2020.

Strengthening of ZIA AI processor IP, module, and software product

IP Core Product

ZIA™ DV500/DV700



Compact and high performance **AI inference processor IP** that uses deep learning

Application

- AI-integrated camera SoC
- Autonomous driving SoC

Module Product

ZIA™ C2/C3



Flexible and low power consumption **AI inference processing module**, mounting DMP DV700 to FPGA

Application

- Industrial machinery
- Robotics
- Medical equipment

Software Product

ZIA™ Classifier

Object Recognition / Classification

- Deep learning inference engine
- Learned model
- Computer vision
- Optimized library

Self-developed and advanced **image recognition / classification engine** based on AI and image-processing technology

Application

- Driver monitor system
- Analysis of near misses
- Medical diagnosis

Initiatives

Improve functions and performance, enhance line-up

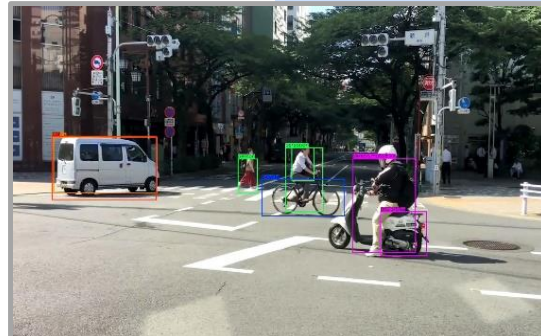
Develop products with high added value, such as products with integrated cameras

Expand applications by strengthening AI functions

Software Product: Broadening Application of ZIA Classifier



Driver Monitoring System



Outside-Car Surveillance System

Company A: Analysis of near-miss images

ZIA™ Classifier

Deep learning inference engine

Learned model

Computer vision

Optimized library
(OpenCV OpenVX
Photography Vision)

Smartly recognize and classify images by making full use of deep learning and computer vision



Medical System

Company B: Anonymization of personal information



Construction Machinery /
Agricultural Machinery

Automatic running and picking on trails

AI EXPO TOKYO 2019

April 3-5, 2019 at Tokyo Big Sight

7 partner companies exhibited various applications that use ZIA C3

PALTEK



NTT COMWARE



Morpho



Cross Compass



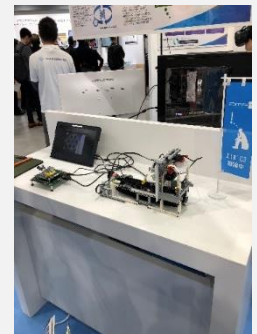
Rist



Crystal-Method



Computermind



Visual inspection

Jointly exhibited

Cloud-linked learning

Travel-route assessment

Predictive maintenance

Clothing inspection

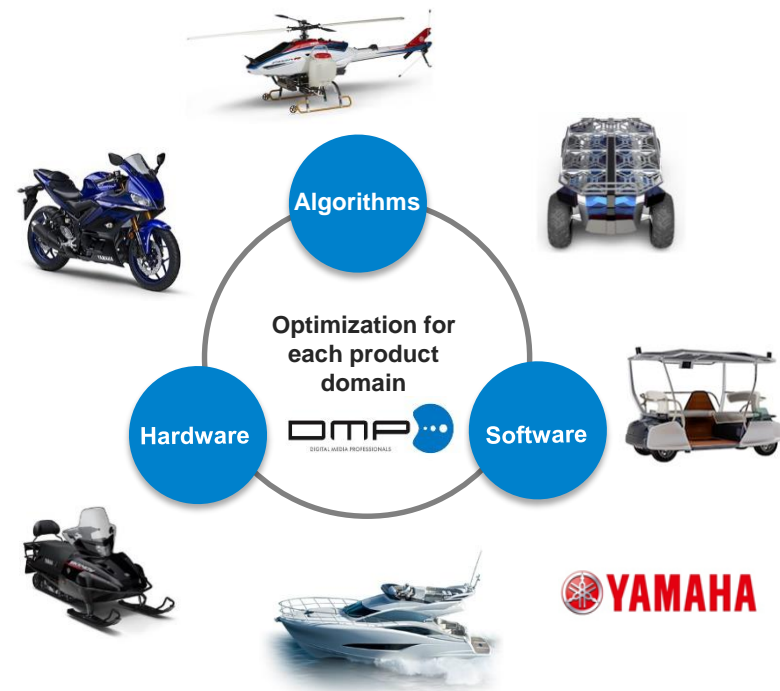
Human detection

Visual inspection

Collaborating in the final commercialization process from developing algorithms by applying AI technology through to mounting on products

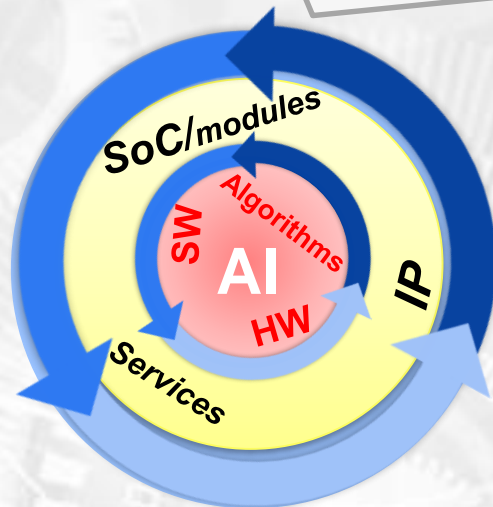
- Development of automatic / self-controlled driving systems in low speed areas
- Development of labor-saving and automation systems in agricultural areas, etc., that use robotics technology
- Development of advanced safe driving support systems for all mobility products

Development of systems optimized for each product domain of Yamaha Motor by using DMP's AI algorithms, software, and hardware technology



Evolve into the world's leading "AI Computing Company"

Integrated development of AI algorithms, software and hardware



Expansion into the growing IoT/AI field

Development of ZIA platform

- Processor IP
- Software
- Modules
- Strengthening of ecosystem with partners
- Overseas expansion

AI solutions for Mobility / Industry

- Autonomous driving
- Robotics

Expansion of the SoC / Module Business

- High value-added modules
- High-volume AI products

Stable management foundation in the amusement market where we can win

Expand sales of RS1

Aiming for top share in amusement SoC

Current position

Phase 1

Phase 2

Phase 3

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