

MICROVISION

The World-Best Embedded Solution Provider

Jan 2021

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History , Vision**



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Product Line-Card**



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Introduction



M I C R O V I S I O N

Embedded Solution Provider & OEM/ODM Manufacturer

Company

MICROVISION

CEO

LEE , HYEON JAE

Established

May 1995

Main Business

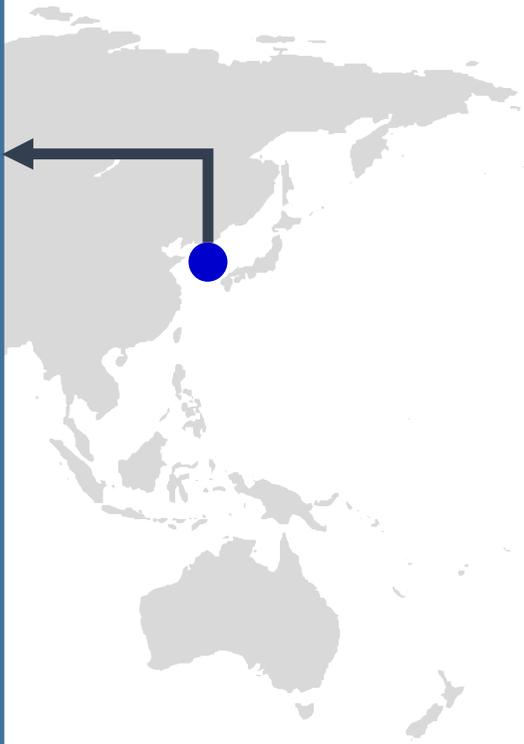
Embedded Solution Provide &
ODM/OEM Manufacture

Capital

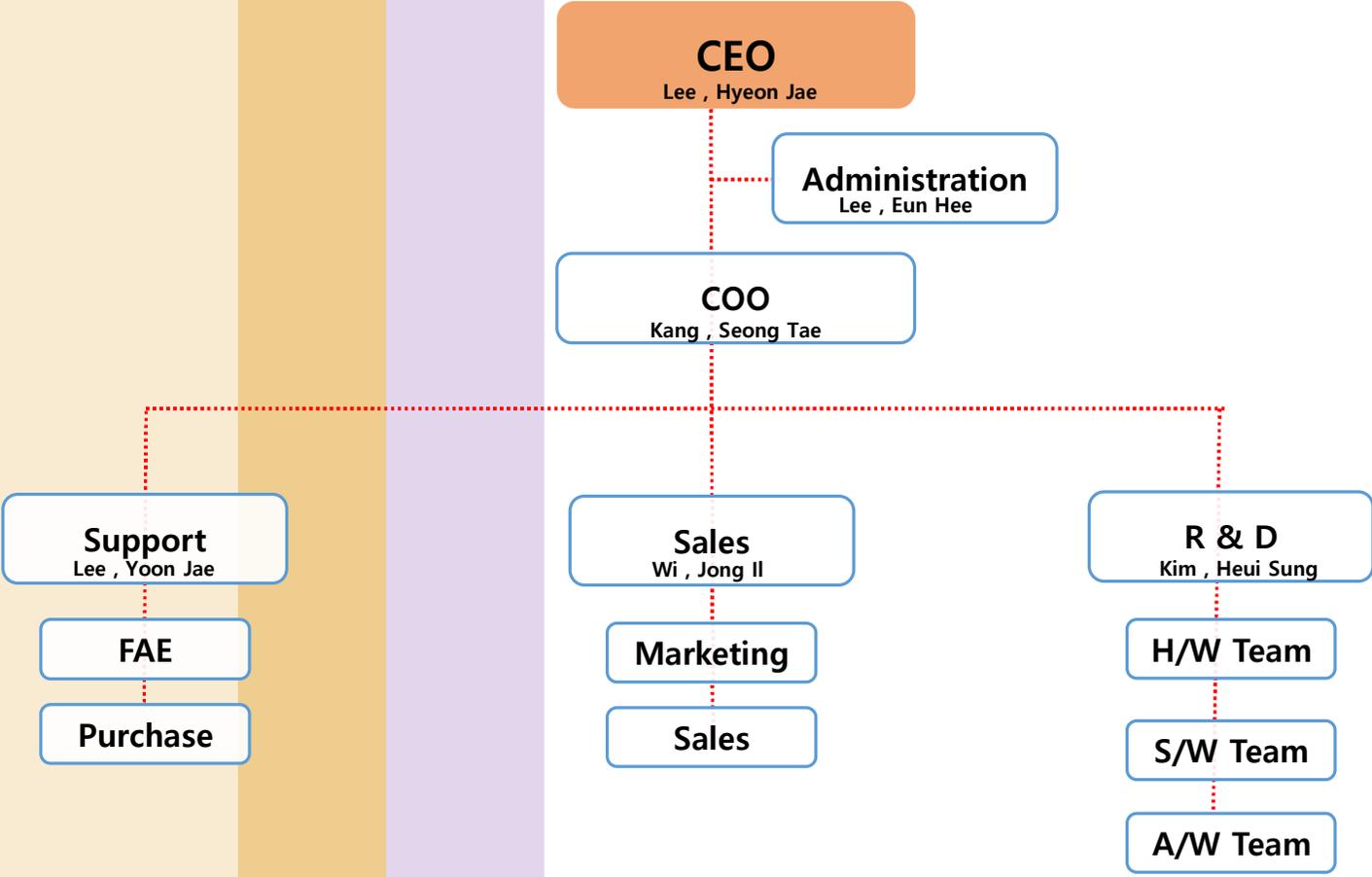
KOR ₩ 50,000,000

Location

10th Fl, Hanshin IT Tower
Guro-Dong, Guro-Gu, Seoul Korea



Organization

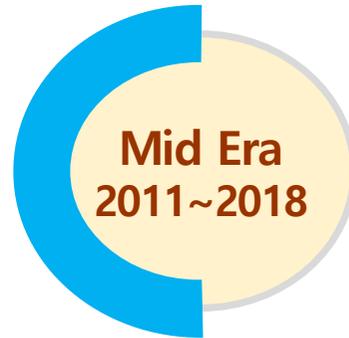


Up to Now



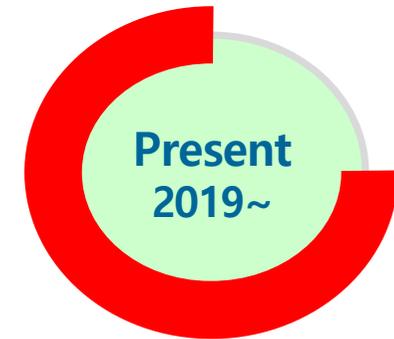
Early Era
~2010

- 1991. Company Established
- 1993. Contract signed as Korean Distributor for " Local Distributor for IAR and EPI "
- 1995. Company Legally Registered
- 1999. Hosts Samsung MCU Software Campaign
Lead 4-Bit and 8-Bit MCU Marketing
- 2006. Won the prize " Inno-Business Company "
- 2009. Designated by Samsung as " H/W Solution Partner "
Contracted to provide Embedded System Solution
based on ARM and CorTex with Android and Linux OS
- 2010. Released Embedded System Solution based on S5P210



Mid Era
2011~2018

- 2011. Released Embedded System Solution on Exynos 5422
- 2015. Released Embedded System Solution on Exynos 7420
- 2016. Released Embedded System Solution on Exynos 8890
Started to design win Customer Projects
Contracted to provide NXP CPU series
- 2017. Released Embedded System Solution on NXP i.MX6Q
- 2018. Released Embedded System Solution on Exynos 8895
Design win on T-Live Castor



Present
2019~

- 2019. Released Embedded System Solution on Exynos 8890A
Design win Vehicle Application
Released Embedded System Solution on NXP i.MX8M
- 2020. Design win Semiconductor Equipment
Design win Augmented Reality Application
Design win Ransomware Application
Design win Gateway for Bigdata Application

Vision

01

Secure World-Best Embedded System Solution based on High-Performance CPU and Qualified OS

02

Provide Customer the Satisfactory Solution thru Mutual agreement

03

Lead the Embedded Industry with MICROVISION Core-competence

What we are working

1

Embedded System Solution

A Reference Board Solution

Microvision Standard Reference Board

Microvision Standard CPU Module

HW Design based on ARM& Cortex Core and Provide Reference Board

Samsung EXYNOS 9820/8890/850

NXP i.MX6 Quad / i.MX8 Series

Rockchip RK3588/3368 Series

B SW Solution

Android / Embedded Linux / Windows CE

Device Driver / Middle ware / Application SW Programming

2

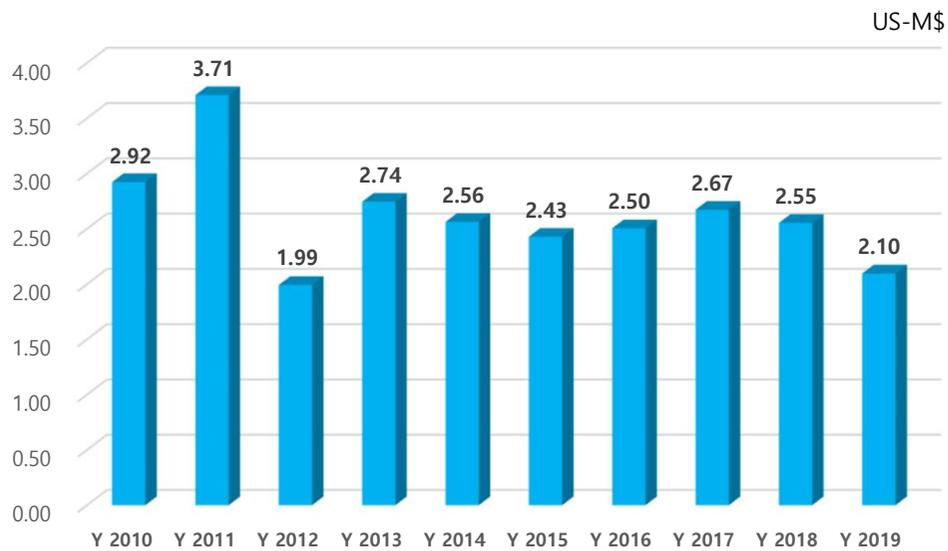
ODM/OEM Manufacture

A Customer Working Prototype & Mass-Production

B B2B Project : Vehicle , Semiconductor Equipment, Display

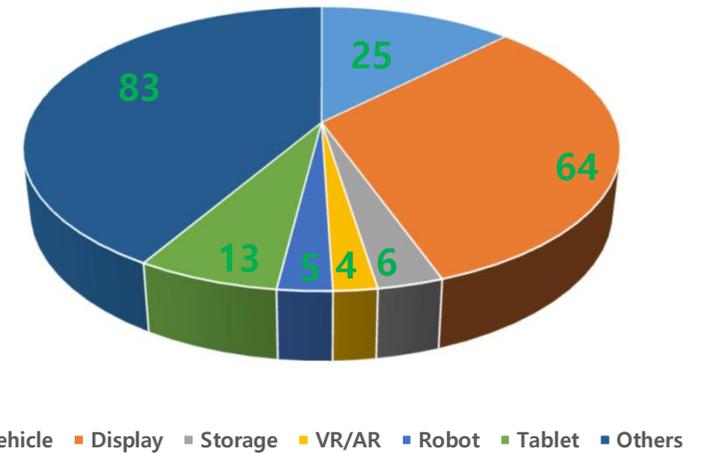
Sales Revenue

Yearly Sales Revenue



2020 Sales Revenue hits 2.5M US\$ by Vehicle and Semiconductor Equipment

Project Segments



Major Projects are occupied by Vehicle and Display in Project numbers

Business Area

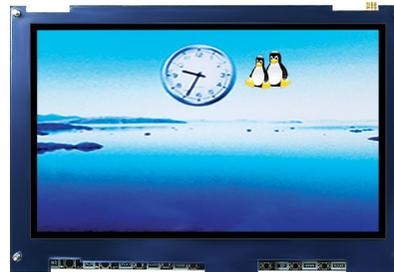
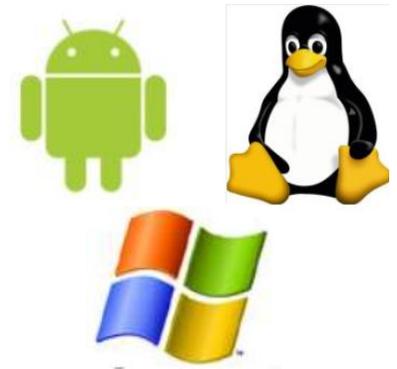


Embedded Reference System Solution

Microvision Standard Reference Board
Microvision Standard CPU Module
Samsung EXYNOS 9820/8890/8895/850/7420
NXP i.MX6 Quad / i.MX8 Series
TI 3358/3359
Rockchip RK3588/3368 Series

SW Solution

Android 8, 9, 10, 11*
Embedded Linux 4.14.98
Windows CE
Device Driver
Middle-ware Programming



Microvision Standard Reference Boards



Microvision Standard CPU Modules

Business Area



ODM/OEM Manufacture

B2B Project Segment
Vehicle , Display, Semiconductor Equipment
Mobile, 5G, AI, IoT

Customer Working Prototype & Mass-Production



3D DID Board



Industrial Steam Oven



Small Biochip Scanner



Black Box For Cars



Home Network



Wrist PC



UCC Device



Real-time Translation Device



Electronic Picture Frame In Internet



Video camera embedded board



DMB/NAVI Device



Gameplayer On Exercise Machine



Mostly Reliable Quality Products Ever



Major Customer Projects

Microvision Line Card

Hi-End

Mid-End

ES
Engineering Sample
IQ
Internal Qualification

<p>MV850-LCD  Exynos 850 (2.1 GHz) CorTex A55 Octa Android Q ES Dec 2020 IQ Feb 2021</p> <p>MV8890-LCD  Exynos 8890 (2.3 GHz) CorTex A53 Quad Mongus Quad Android 6, Ubuntu 16 On Sale</p> <p>MVV310-LCD  SSP310 (1 GHz) CorTex A9 Dual Android 4, Linux 3 On Sale</p> <p>MV9820-LCD  Exynos 9820 (2.7 GHz) CorTex A72 Dual CorTex A55 Quad CorTex M4 Dual Android P ES Feb 2021 IQ Jun 2021</p> <p>MV7420-LCD  Exynos 7420 (2.1 GHz) CorTex A57 Quad CorTex A53 Quad Android P, Ubuntu 14 On Sale</p> <p>MV5422-LCD  Exynos 5422 (2.1 GHz) CorTex A15 Quad CorTex A7 Quad Android 4, Debian 7 On Sale</p>	<p>MV8M P-LCD  i.MX8M Plus (2 GHz) CorTex A53 Quad CorTex M7 ES May 2021 IQ Oct 2021</p> <p>MV8M-LCD  i.MX8M mini (1.8 GHz) CorTex A53 Quad CorTex-M4 Android P, Linux 4 On Sale</p> <p>MV6Q-LCD  i.MX6Q (1 GHz) CorTex A9 Quad Android 8, Linux 4 Yocto 4, Ubuntu 16 On Sale</p>	<p>MV3588-LCD  RK3588 (2.6 GHz) CorTex A76 CorTex A55 ES Apr 2021 IQ Sep 2021</p> <p>MV3358-LCD  AM3358 (1 GHz) CorTex A8 CorTex M7 Debian 8, Linux 4 On Sale</p>
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Microvision Line Card Benchmark

	MV850-LCD	MV8895-LCD	MV8890-LCD	MV7420-LCD	MV5422-LCD	MV3399-LCD	MV8M-LCD	MV6Q-LCD	MV3358-LCD
AP(CPU)	Exynos850 64Bit Octa Core (Cortex -A55 2GHz Octa)	Exynos8895 64Bit Octa Core (Custom core 2.3GHz Quad Cortex -A53 1.7GHz Quad)	Exynos8890 64Bit Octa Core (Custom Core 2.3GHz Quad Cortex -A53 1.6GHz Quad)	Exynos7420 64Bit Octa Core (Cortex-A57 2.1GHz Quad A53 1.5GHz Quad)	Exynos5422 Octa Core (Cortex-A15 2.1GHz Quad / A7 1.5GHz Quad)	Cortex-A72 Dual Core /Cortex-A53 Quda-Core	i.MX 8M Mini Cortex-A53 1.8 GHz / Cortex-M4 400 MHz	iMX6Q Cortex-A9 Quad 1Ghz	AM3358 Cortex-A8 1Ghz
NAND Flash	eMMC 5.1	UFS 2.1 32GB	UFS 2.0 32GB	eMMC 5.0 32GB	eMMC 5.0 4GB	eMMC 5.1 32GByte	eMMC 16GB	eMMC 8GByte	eMMC 4GByte
Camera	Dual camera single 21.7 MP@30FPS Dual 16+5 MP@30FPS	MIPI 2M Pixel & 16M Pixel	MIPI 2M Pixel & 16M Pixel	MIPI 2M Pixel & 16M Pixel	MIPI 2M Pixel & 16M Pixel	x	MIPI 5M Pixel	MIPI 5M Pixel Parallel 5M Pixel	X
LCD	MIPI DSI Interface 1 Ch MIPI CSI Interface 3Ch 1080 x 2520 (FHD+)@60FPS	MIPI (DSI), 5" LCD 1080x1920 4 Lane	MIPI (DSI), 5" LCD 1080x1920 4 Lane	MIPI (DSI), 5" LCD 1080x1920 4 Lane	MIPI (DSI), 5" LCD 1080x1920 4 Lane	MIPI (DSI), 5.44" LCD 1080x1920	MIPI (DSI), 5" LCD 1080x1920 4 Lane	7" WVGA LCD / 800X480	7" WVGA LCD / 800X480
USB	USB2.0 OTG	USB 3.0 OTG	USB 3.0 OTG	USB 3.0 OTG USB Host 2.0 2EA	USB 3.0 OTG USB Host HSIC	USB 3.0 2 Port USB 2.0 2 Port	USB 2.0 OTG	USB 2.0 Host USB Device 2.0	USB 2.0 Host 2EA USB 2.0 OTG 2EA
Connectively	802.11ac BT 5.0	Wi-Fi(Direct) 802.11 a/b/g/n/ac Bluetooth 4.2	Wi-Fi(Direct) 802.11 b/g/n Bluetooth 4.0	Wi-Fi(Direct) 802.11 b/g/n Bluetooth 4.0	Wi-Fi(Direct) 802.11 b/g/n Bluetooth 4.0	802.11 a/b/g/n/ac dual band support MAX 80Mbps / Bluetooth 5.0 BLE	Wi-Fi 802.11 a/b/g/n Bluetooth 2.4G	Wi-Fi 802.11 a/b/g/n Bluetooth 4.0	Wi-Fi 802.11 a/b/g/n Bluetooth 4.0
HDMI	X	X	HDMI 2.0 (UHD TV-out)	HDMI 1.4 (UHD TV-out)	HDMI 1.4	HDMI 1.4/2.0	X	HDMI 1.4	HDMI 1.4
PCI	TBA	PCIe to USB	PCIe to USB	X	X	X	PCIe 2.0	PCIe 2.0	X
Ethetnet	TBA	X	X	Ethemet 10/100M	Ethernet 10/100M	10/100/1000 Ethernet	Ethernet 10/100M	Ethernet 10/100M/1Giga	Ethernet 10/100M
Sensor	TBA	G-Sensor, E-Compass, Gyroscope	G-Sensor, E-Compass, Gyroscope	G-Sensor, E-Compass, Gyroscope, Pressure	Magnetic Sensor, Gyro & Accelerometer	G-Sensor, Gyroscope	Gyro & Accelerometer	G-Sensor	X
OS	• Android Version 10	• Android Version 7.0(Nougat) Kernel 4.4.13	• Android 6.0(Marshmallow), Kernel 3.18.x • Ubuntu 16.04 Kernel 3.18.x	• Android 6.0(Marshmallow), Kernel 3.10.x • Ubuntu 14.4 Kernel 3.10.x	• Android Version 4.4.x(Kitkat), Kernel 3.10.9 • debian Linux 7.5(wheezy), Kernel 3.10.9	• Android Version 10, Kernel 4.x • Linux Kernel 4.x	• Android Version 9.0(Pie), Kernel 4.x	• Android 8.0(Oreo), Kernel 4.9.17 • Linux : Kernel 4.9.11 • Rootfs : Yocto BSP 4.1.15 (optional : Ubuntu 16.04 LXDE)	• debian Linux 8.7(LXQt), Embedded Linux 4.9.37

Partners



We Promise



Share creative Ideas and Experiences we have been through



Provide Customer the Reliability and the Trust thru the Qualified Products

THANKS

Do you have any questions ?

Keep contact us

+82 2 3283 0101

sale@microvision.co.kr

www.microvision.co.kr

or

(USA) 714 616 6161 / 070 8263 1050

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