



CURIOUS

CURIOUS Corporation

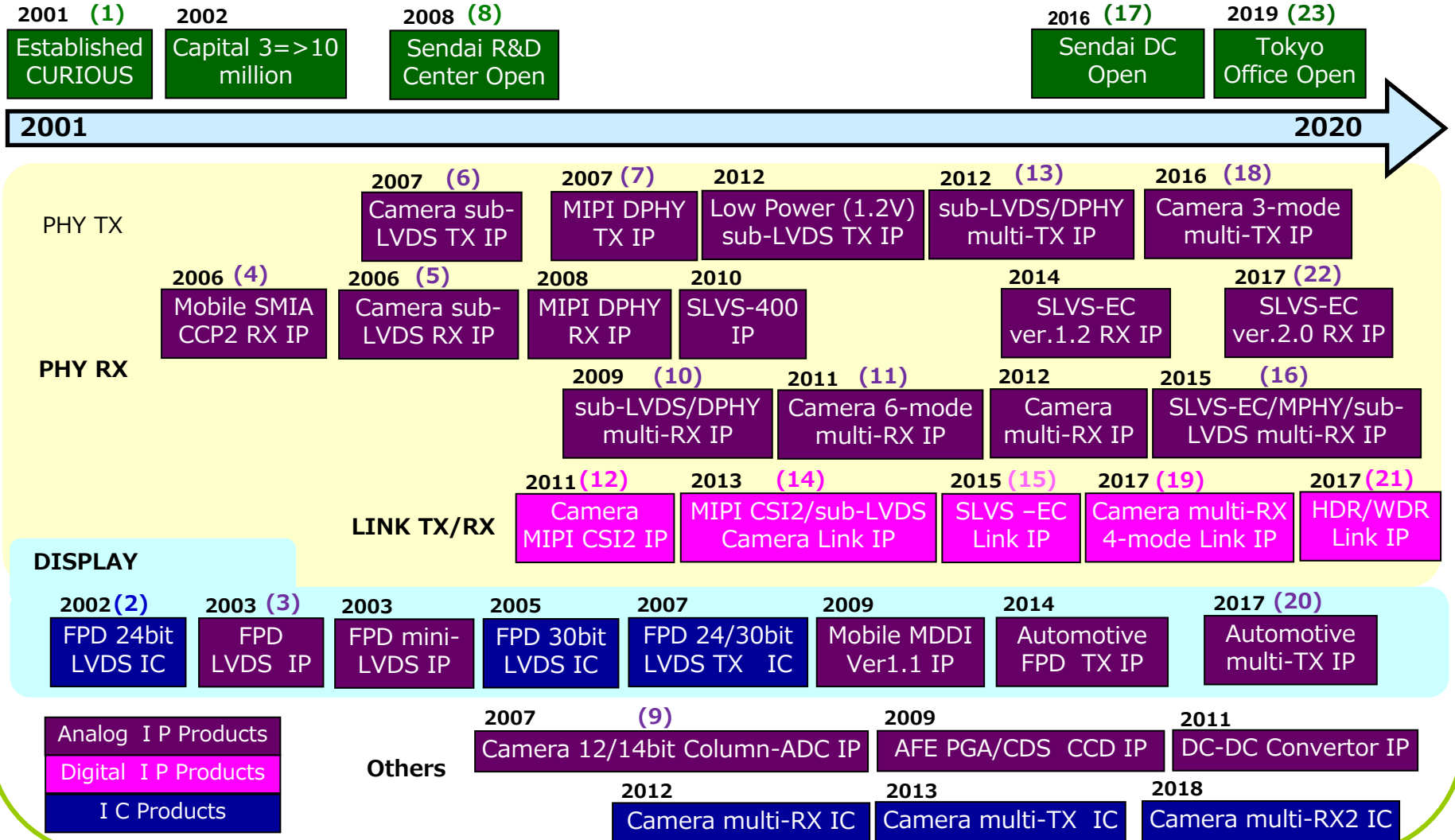
Introduction

Company History

Curious Corporation was established in July 2001 in Ichinoseki, Iwate, Japan as an IP & fables design company specializing in the development and design of analog products. We mainly provide high-speed interface design to customers as IP in the application fields of CMOS image sensors and flat displays such as industrial and consumer camera market.

- July 2001 : Curious Corporation established in Ichinoseki, Iwate, Japan
- Jan 2008 : Sendai R & D center opened in Sendai City, Miyagi.
- July 2016 : Sendai Design Center opened in Sendai City, Miyagi.
- October 2019 : Capital increased from 10 million yen to 160 million yen
- November 2019 : Tokyo office opened in Chiyoda-ku, Tokyo

Company History



Company Location

Tokyo Kanda Office

Tokyo Chiyoda-ku Kanda

Subway Awajicho/Ogawamachi Station About 1 minutes walking
 JR Line Akihabara / Kanda / Ochanomizu Station About 10 minutes walking

Ichinoseki Headquarters

Tohoku Shinkansen

Tokyo ~ Ichinoseki Hayate About 2 hour 10 minutes

Sendai Design Center

Tohoku Shinkansen & Subway

Tokyo ~ Sendai Hayate About 1 hour 30 minutes
 Sendai ~ Kitayobancho subway About 5 minutes

Sendai R&D Center

Tohoku Shinkansen & Subway

Tokyo ~ Sendai Hayate About 1 hour 30 minutes
 Sendai ~ Izumicyuo subway About 15 minutes

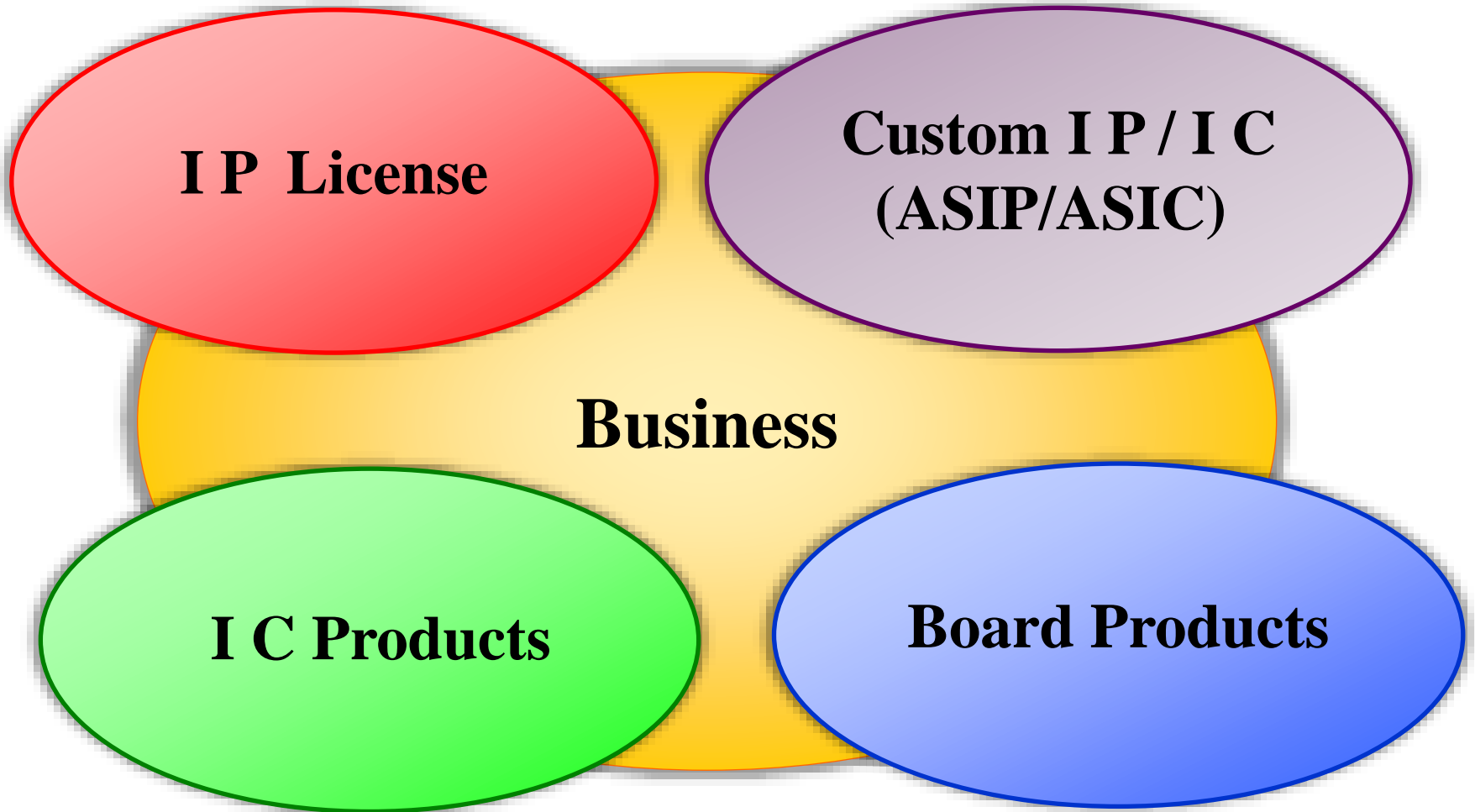
Partner company (Singapore)

CURIOUS TEK PTE. LTD.

Airplane & Subway
 Changi Airport ~ Mattar subway About 40 minutes
 Mattar Station About 13 minutes walking



Business Model



Business Model

◆ Product Class ◆

Display Interface Application



*LVDS / mini-LVDS
MIPI(D-PHY)
FPD-link / MIPI(DSI)*

Camera Interface Application



*MIPI(D-PHY, C-PHY)
SLVS-EC / sub-LVDS
MIPI(CSI2, CSI3)*

Image Capture Application



*column A/D converter
AFE / V-Driver
ISP, Video Decoder*

IP License

◆ multi-Interface IP

Camera PHY: MIPI(DPHY,CPHY), sub-LVDS(Serial/Parallel),SLVS(EC,400,200),HiSPi

Display PHY: LVDS, mini-LVDS, MIPI(D-PHY) , etc

Camera LINK: MIPI(CSI2,CSI3), sub-LVDS(8/10/12/14/16bit,Serial/Parallel) , SLVS-EC, HiSPi

◆ Camera Interface IP

PHY: MIPI(DPHY,CPHY), sub-LVDS(Serial/Parallel),SLVS(EC,400,200),HiSPi

LINK: MIPI(CSI2,CSI3), sub-LVDS(8/10/12/14/16bit, Serial/Parallel), SLVS-EC , HiSPi

◆ Display(LCD/Plasma) Interface IP

PHY: MIPI(D-PHY), mini-LVDS, LVDS, RSDS, etc

LINK: MIPI(DSI), FPD-link, DDR Format , etc

◆ Image Sensor & Analog IP

Image Sensor: column ADC, Sense Amp, Ramp-Generator, OB-Clamp, CDS, PGA, etc

Analog: DC-DC convertor, LDO, PLL/DLL, ADC, DAC, Bias, etc

◆ Digital IP

ISP, LINK-Layer(Controller), SyncCodeDetector, Video-Codec, HDR/WDR, Fisheye Camera, etc

URL: http://www.curious-jp.com/en/ip_if_camera.html

http://www.curious-jp.com/en/ip_if_fpd.html

IP License

◆ Camera Multi(Combo)-Interface IP

Product Name	Input Interface	Output Interface	Maximum Frequency	TX/RX Lane	Process Name	Process Node	Status
CL12842 Series	SLVS-EC MIPI D-PHY HiSPi SLVS sub-LVDS CMOS1.8V	CMOS	5/2.304Gbps 4.5/2.5/1.5/1Gbps 1Gbps/700Mbps 1Gbps/700Mbps 1Gbps/650Mbps 200/170/150MHz	RX 4-Lane 8-Lane 12-Lane 16-Lane	TSMC UMC Samsung GF	14 16 22 28 40	Available
CL12684 Series	MIPI D-PHY HiSPi SLVS sub-LVDS LVDS miniLVDS CMOS1.8V	CMOS	2.5/1.5/1.0Gbps 1Gbps/700Mbps 1Gbps/700Mbps 1Gbps/650Mbps 1Gbps 1Gbps 200/170/150MHz	RX 4-Lane 8-Lane 12-Lane 16-Lane	TSMC UMC SMIC TPSCo	28 40 55 65 110 180	Available

Other IPs:

URL: http://www.curious-jp.com/en/ip_if_camera.html

IP License

◆ Camera Sensor Interface IP

Product Name	Input Interface	Output Interface	Maximum Frequency	TX/RX Lane	Process Name	Process Node	Status
CL12821 Series	CMOS	SLVS-xx D-PHY	2.304Gbps 2.5Gbps	TX 4-Lane 8-Lane 16-Lane 24-Lane 32-Lane	TPSCo TSMC	65 90	Available
CL12661 Series	CMOS	D-PHY sub-LVDS	2.5Gbps 1.0Gbps	TX 4-Lane 8-Lane	TSMC TPSCo	28 65	Available
CL12631 Series	CMOS	D-PHY	2.5Gbps 1.5Gbps 1.0Gbps	TX 4-Lane 8-Lane	UMC TPSCo	55 65	Available

Other IPs:

URL: http://www.curious-jp.com/ip_if_camera.html





IP License

◆ Automotive Interface IP

Product Name	Input Interface	Output Interface	Maximum Frequency	TX/RX Lane	Process Name	Process Node	Status
CL12661 Series	CMOS	MIPI D-PHY LVDS	1.5/1.0Gbps 1Gbps	TX 10-Lane	GF UMC	40 110	Available
CL12631 Series	CMOS	MIPI D-PHY	1.5/1.0Gbps	TX 2-Lane 4-Lane	TSMC UMC TPSCo	40 55 65 110	Available
CL12451 Series	CMOS	LVDS FPD-link	350Mbps (50MHz)	TX 4-Lane 5-Lane	UMC FUJITSU	55 180 350	Available

IC Products

◆ Camera Interface IC

Product Name	Input Interface	Output Interface	Maximum Frequency	TX/RX Lane	Package	Status
CL12661 Series	LVDS	D-PHY v.1-2 Sub-LVDS	2.5Gbps 800Mbps	TX 4-Lane	LFBGA 400-pin 	Sample Out
CL12842 Series	SLVS-EC ver.1.2 D-PHY v.1-2 HiSPi sub-LVDS CMOS1.8V,etc	CMOS1.8V LVDS	2.304Gbps 2.5Gbps 700Mbps 650Mbps 150MHz	RX 4-Lane	LFBGA 400-pin 	Sample Out
CL12684 Series	D-PHY/HiSPi sub-LVDS LVDS, miniLVDS CMOS1.8V,etc	CMOS1.8V LVDS	1.0Gbps 650Mbps 1.0Gbps 150MHz	RX 4-Lane	LQFP 144-pin 	Sample Out
CL12683 Series	CMOS1.8V	D-PHY/HiSPi sub-LVDS LVDS, miniLVDS CMOS1.8V,etc	1.0Gbps 650Mbps 1.0Gbps 150MHz	TX 4-Lane	LQFP 144-pin 	Sample Out

For IP evaluation or IP product counter test device.

Contact us

If you have any questions or requirements, such as a detailed information of Curious IP products, please feel free to contact us at the email address :

curious.info@curious-jp.com



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Thank You Very Much