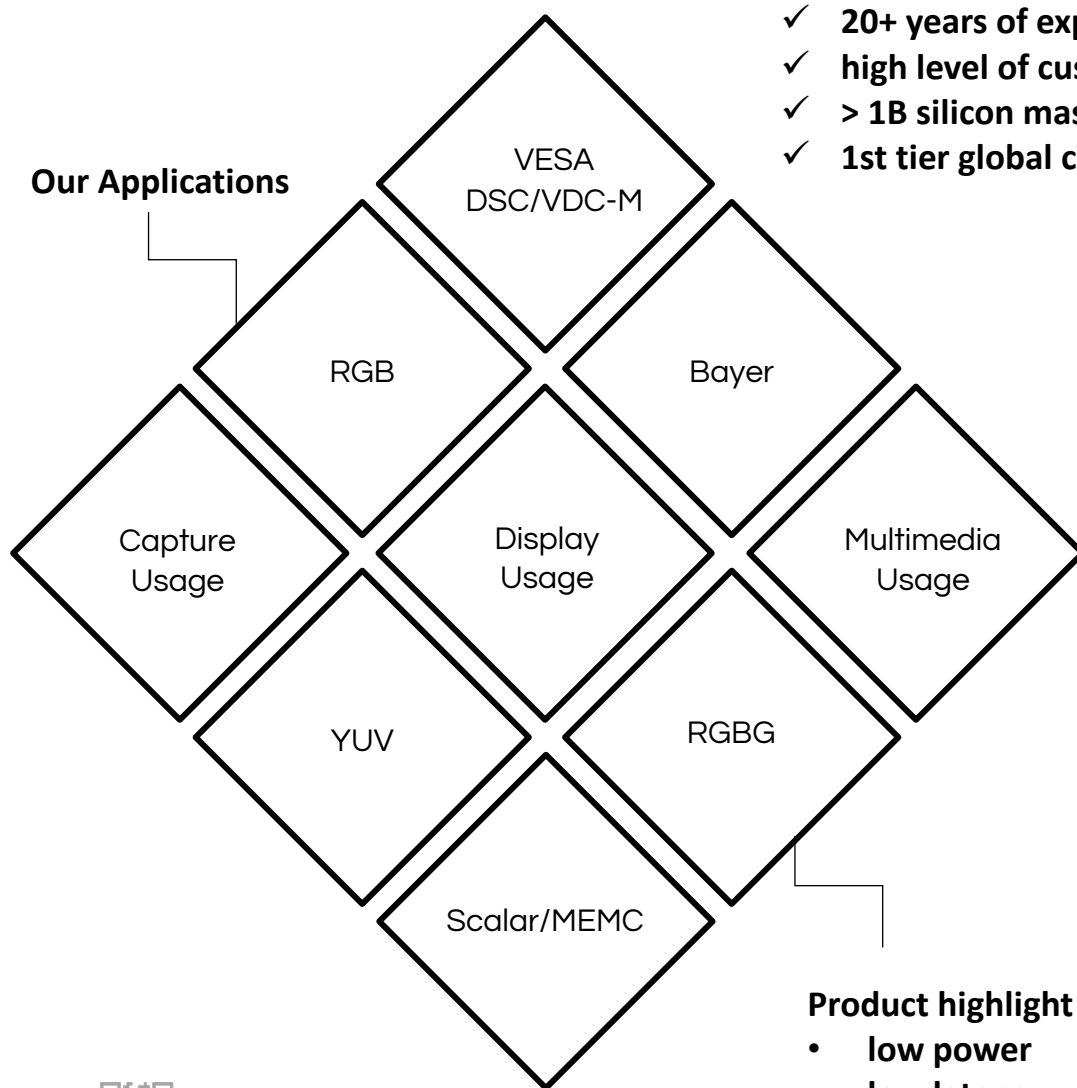Taiwan Imaging Tek Corp.

TITC

TITC

Image Compression IP specialist

- ✓ **20+ years of experience**
- ✓ **high level of customization**
- ✓ **> 1B silicon mass produced**
- ✓ **1st tier global customers**

Our Applications

VESA DSC/VDC-M

RGB

Bayer

Capture Usage

Display Usage

Multimedia Usage

YUV

RGBG

Scalar/MEMC

Product highlight features:
- **low power**
- **low latency**
- **small area**

Tel: +886-3-5829011
☺ www.titc-usa.com

TITC F-Series IP
TITC RGB/RGBG for Frame Buffer

Lower level APs (Application Processor) in smart phones may not support VESA DSC to reduce transmission bandwidth between AP and DDIC (Display Driver IC). DDI sometimes need to support both lower and higher level APs with the same embedded SRAM footprint. Proprietary compression and decompression functions are asked to added in DDIC.

TITC provided huge mass production proven compression and decompression IP to solve this headache. IPs support range from H2V2 2x, H8V2 3x, to H4V4 4x, with the capability of partial update. Special color format like RGBG in AMOLED panel also can be supported by customization. You can rest assured that it is the best solution because of world wide brand name's qualification.
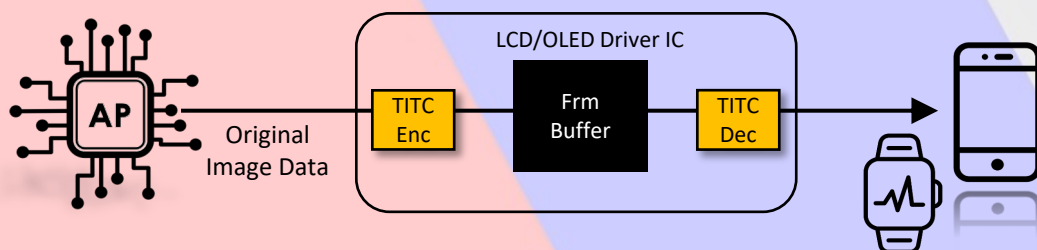
➢ TITC F-Series IP

Usage / Series		display / F-series			
IP Name		**FBC-2**	**FBC-3**	**FBC-4**	**FBC-SPR**
Data	Type	RGB	RGB	RGB	Pentile
	Bit-Depth	8-bit	8/10-bit	8-bit	8bit
Compression	Type	Lossy	Lossy	Lossy	Lossy
	Ratio(Lossy)	2X	3X(8bit)/3.75X(10bit)	4X	2X
	Unit	H2V2 / H4V1	H8V2	H4V4	H8V1
Performance	Throughput	4-pix (per T)	8-pix (per T)	8-pix (per T)	8-comp. (per T)
Note		* super MP(>300M) * widely adopted by LCD phone/ OLED watch	* super MP(>300M) * widely adopted by OLED phone		* RGB 3X effective