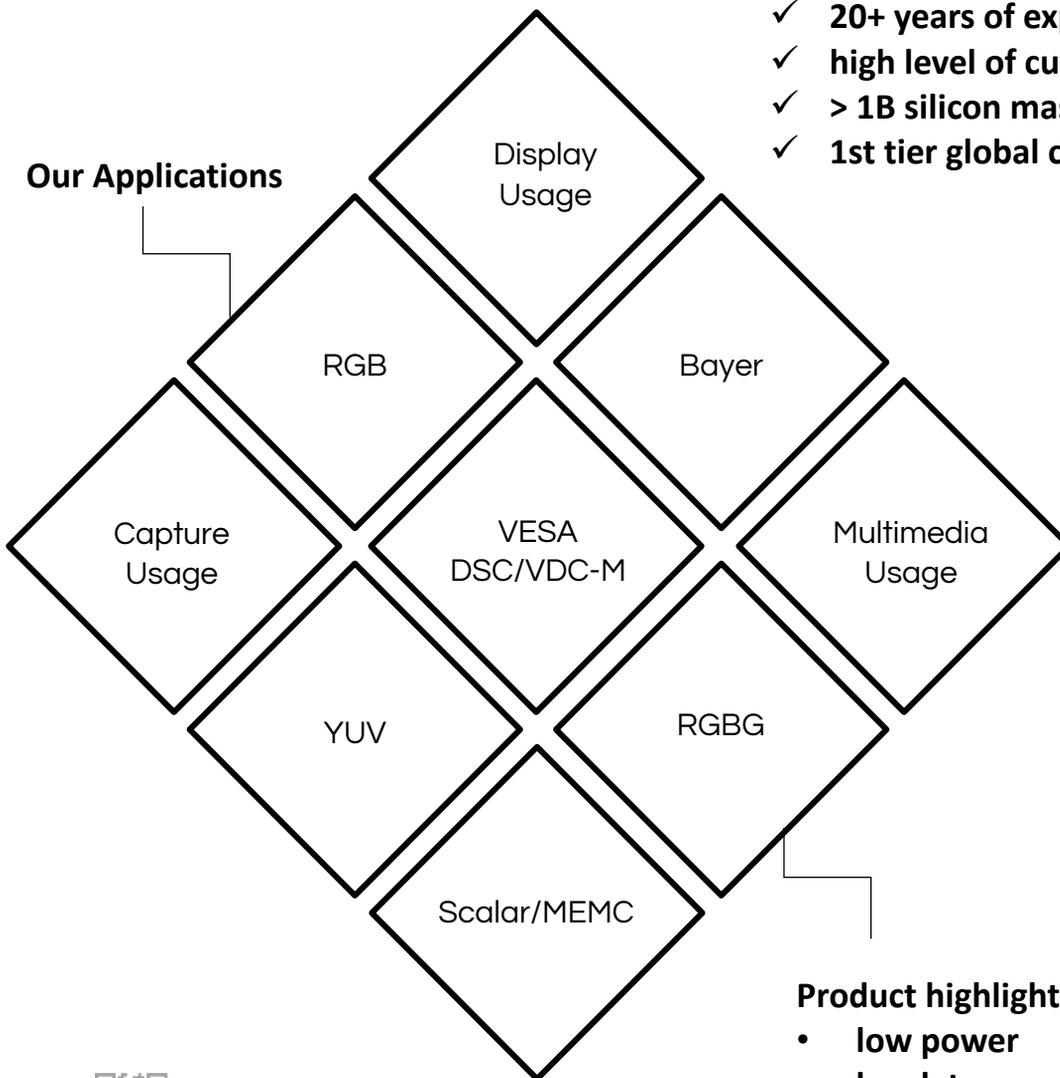


# TITC

**Image Compression IP specialist**

**Our Applications**



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

**Product highlight features:**

- low power
- low latency
- small area



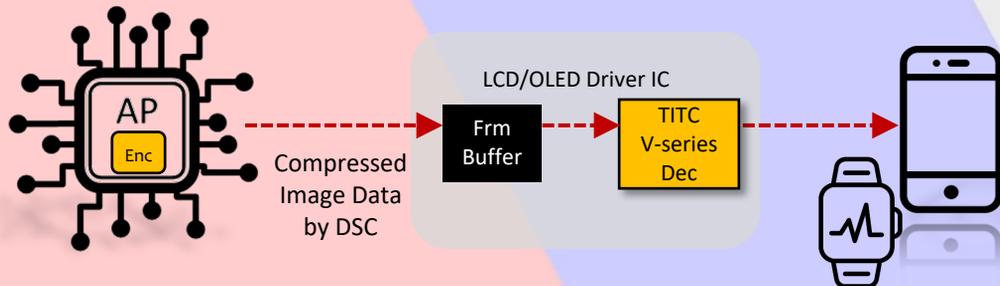
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# TITC V-Series IP

## VESA DSC/VDC-M

VESA DSC ( Display Stream Compression ) and VDC-M ( VESA Display Stream Compression-M ) are standard which is used for compressing and decompressing image display streams. It is designed for real-time systems, with real-time compression, transmission, decompression, and display. These standard IP could be used in many applications and save the transmission cost, such as between a mobile application processor and display panel, between a computer graphics and display monitor, and so on.

TITC provides VESA DSC decoder hardware IPs which is compatible to DSC V1.1 and V1.2a, and a VDC-M decoder hardware IP. Specially, TITC provides 6P/T versions DSC decoder, which could be used for 1 slice setting. These IP are configurable in display resolution ( Up to 4K, UHD+, and 8K ), bits per video component ( 8 and 10 bits ), video output formats( RGB, YCbCr444, YUV422, and YUV420 ), and multiple slice per line setting ( 1, 2, or 4 ). TITC also provides customized service to shrink the IP area when no need to support the whole configuration.



### ➤ TITC VESA IP

Usage / Series		standard/display / V-series	
IP Name		DSC v1.2b (Dec)	VDCM v1.2 (Dec)
Data	Type	RGB/YUV422/YUV420	RGB/YUV422/YUV420
	Bit-Depth	8/10-bit	8/10-bit
Compression	Type	Lossy	Lossy
	Ratio(Lossy)	up to 4X(8bit) / 5X(10bit)	up to 5X(8bit) / 6X(10bit)
	Unit	multi-slice(1/2/4)	multi-slice(1/2/4)
Performance	Throughput	3/6-pix (per T)	4-pix (per T)
Note		* available customizing for v1.1	* available customizing for v1.1.0