

# GenICam Software Package (BetelmaGiCs)

Enables quick development of applications conforming to the EMVA GenICam standard

## Overview

GenICam Software Package is a software IP that fully complies with GenICam standards. Adopting this software IP, users can easily develop their application software on GenICam. GenICam is a standard formulated by EMVA (European Machine Vision Association). EMVA standardized the software interface defining common API to control different interfaces of cameras such as GigE Vision, USB3 Vision, CoaXpress™, etc. in the same way.

## Features

- Compliant with EMVA GenICam standard
- Flexible design that allows selection of different interfaces (GigE Vision, USB3 Vision, etc.) without changing application software.
- Compliant with GenICam GenTL standard (allows operation using GenICam compatible third-party applications)
- Specific features of GigE Vision interface
  - Connection of multiple GigE Vision cameras to a single host PC. Achieves 995 Mbps maximum transfer rate for each camera
  - Packet re-transmission, chunk data transfer



## Specifications

- Compliant with EMVA GenICam Standard Version 2.0
- Compatible Interfaces
  - GigE Vision Standard Version 1.2/2.0
  - USB3 Vision Standard Version 1.01 (Scheduled)
  - Embedded Vision (Scheduled)

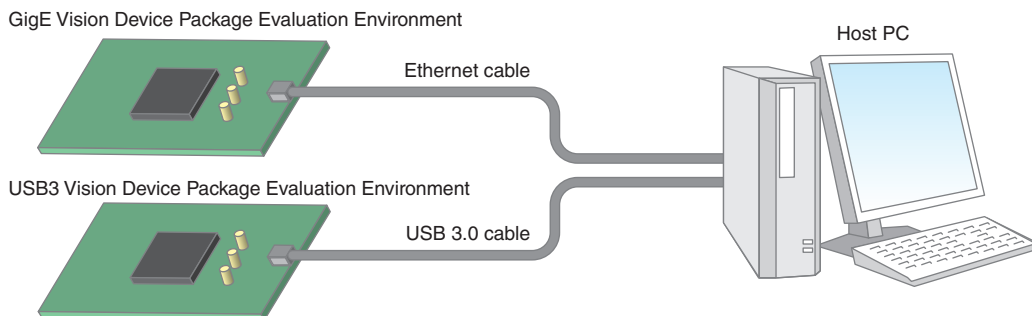
## Supported Operating Systems

- Microsoft® Windows® 7 Professional SP1 64Bit
  - Microsoft® Windows® 10 Pro 64Bit
  - Linux (Scheduled)
- (\* Please contact Macnica sales department for information about other operating systems.)

## Deliverables

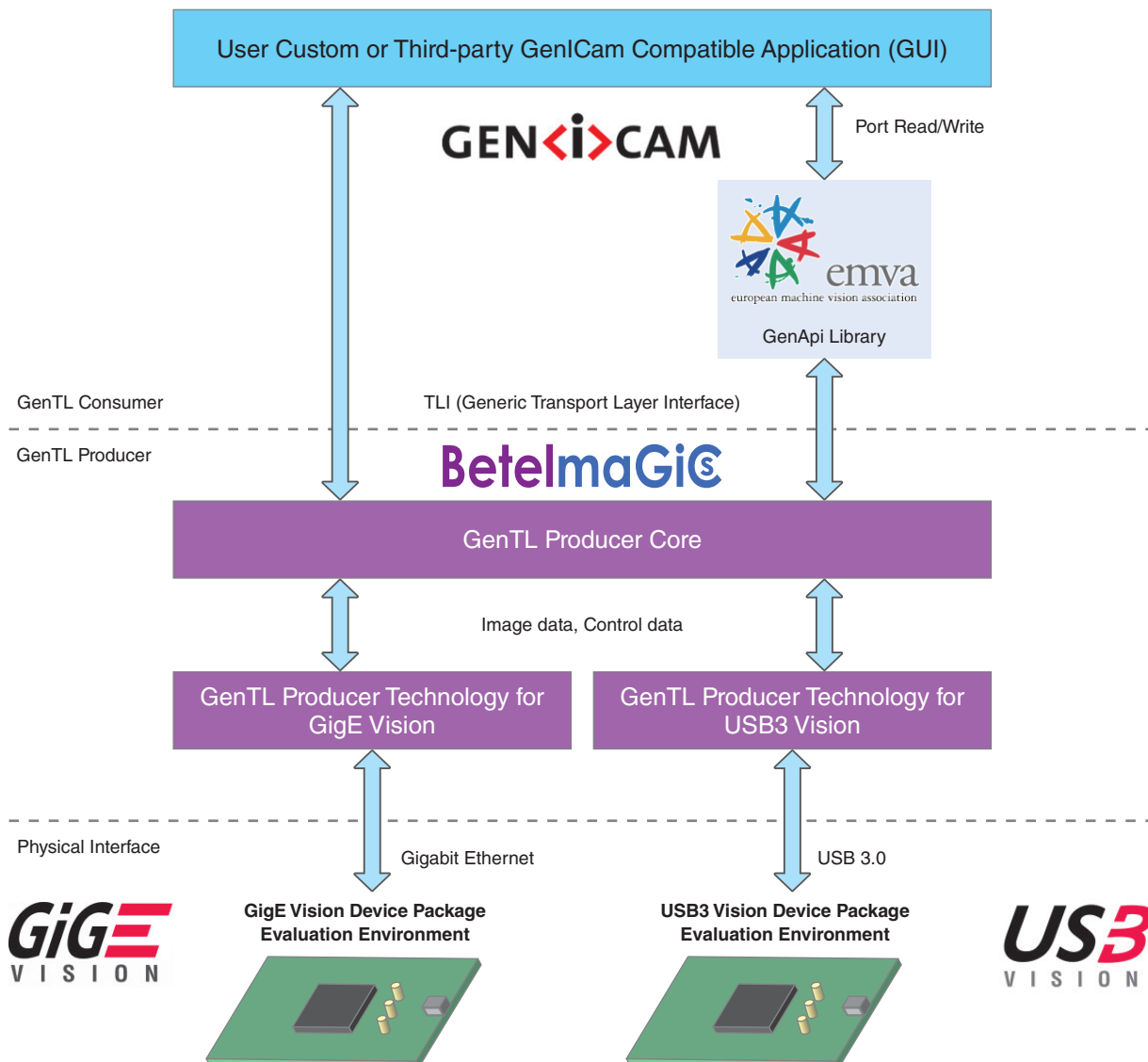
- GenICam software (Binary)
- Sample application (Source)
- User's manual, etc.

## Evaluation Environment



Category	Product Name	Vendor
IP	GigE Vision Device Package	Mpression
IP	USB3 Vision Device Package	Mpression

## Software Configuration



- **GenApi Library**  
GenApi library is provided by EMVA. It controls camera description files acquired from devices
- **GenTL Producer Core**  
This software IP complies with GenICam GenTL standards. Applications access hardware via GenApi or this interface
- **GenTL Producer Technology**
  - For GigE Vision  
Block that includes GigE Vision specific processes
  - For USB3 Vision  
Block that includes USB3 Vision specific processes

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All software required by the GenICam standard is provided, so users can focus on application development.