Product Datasheet
FPA-A/P22-Kit

FSM
ECOSYSTEM
FRAMOS
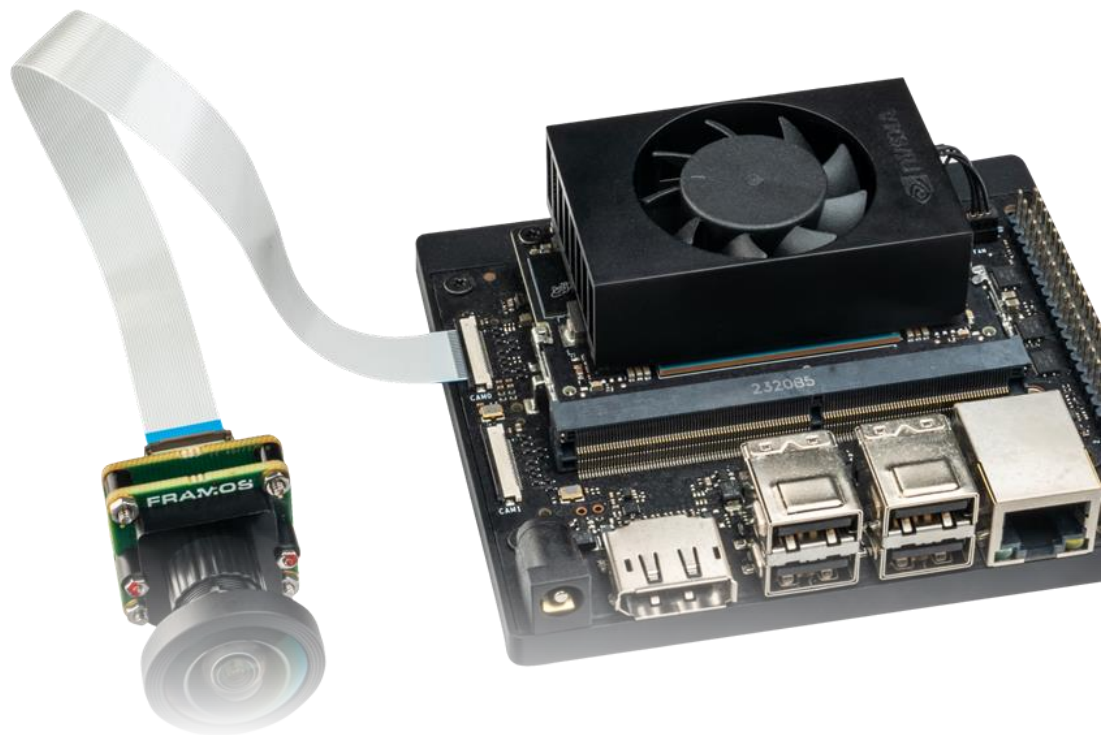

Processor Adapter Kit to 22 pin FPC interface

Connect **FSM:GO** and the **FSM Ecosystem** to the NVIDIA Jetson **Orin Nano/NX** Devices and **Raspberry Pi 5.**

What's in the kit?

- All you need to connect one **FSM:GO** or **FSM+FSA** to devices with the popular **22 pin FPC** interface.
- Includes adapter, cabling and mounting material to piggy-back to one Sensor Module.
- Supports 4-Lanes of MIPI CSI-2 per interface.
- External access to synchronization and timing signals.
- Testpoints to all other sensor signals.

Documentation
docs.framos.com
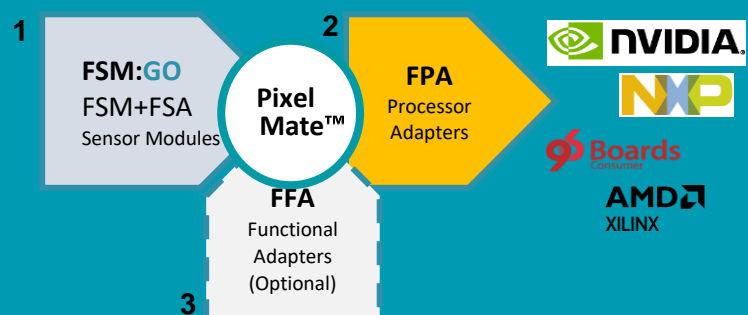
Software
www.github.com/framosimaging

Technical Support:
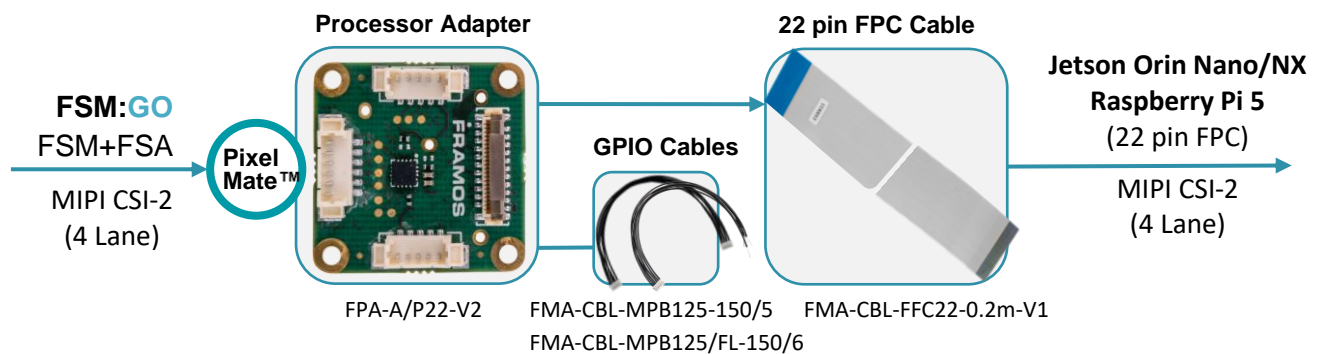support@framos.com

Did you know?

- **FPA Kits (2)** ensure the optimal kick-start with the **FSM:GO** and the **FSM Ecosystem**.
- They connect any PixelMate™ component directly to your processor board, whether it's the **FSM (1)** directly or with an optional **FFA (3)** chain in between—flawlessly and out of the box!

FSM Ecosystem:

1 FSM:GO FSM+FSA Sensor Modules

Pixel Mate™

2 FPA Processor Adapters

3 FFA Functional Adapters (Optional)

NVIDIA
NXP
96 Boards Consumer
AMD XILINX

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FPA-A/P22-Kit

1   PRODUCT DESCRIPTION

The FPA-A/P22-Kit includes all components required to connect a FRAMOS Sensor Module (**FSM:GO**, FSM:FSA) either directly or via an FFA Kit. It is compatible with the latest NVIDIA Jetson Orin Nano and Orin/Xavier NX Developer Kits, the Raspberry Pi 5 and Compute Modules, as well as other 3rd-party boards that utilize the same 22-pin FPC interface and pinout.

2   Drivers & Software

We provide comprehensive support for all our Sensor Modules on the NVIDIA Jetson family, offering reference implementations of MIPI CSI-2 (D-PHY) drivers and example ISP configurations. The software package enables embedded software engineers to access the communication and streaming systems, ensuring optimal image capture in memory.

All sensor drivers and device tree overlays are open source, allowing customization and extension to meet the specific requirements of any application.

Documentation of the supported image sensors, platforms and features can be found in the Wiki of the respective software releases on GitHub: www.github.com/framosimaging.

3   ORDERING INFORMATION

Part Number(s): FPA-A/P22-Kit

Content of Kit:

FPA-A/P22-V2	FPA for Single Sensor Module (stackable) with PixelMate™ to 22 pin FFC (4-Lane CSI-2 pinout).
FMA-CBL-FFC22-0.2m-V1	FFC cable 200mm for FPA-A/P22 connection to Processor Boards.
FMA-CBL-MPB125-150/5	FPA Sync Cable to bridge multiple Sensor Modules; 2x Picoblade (1.25mm/5 Pin), 150mm;
FMA-CBL-MPB125/FL-150/6	FPA IO Cable, Picoblade (1.25mm/6 Pin) to flying/tinned leads, 150mm;
FMA-SCW/01-KIT	Screws / Spacers for direct stacking 2x FSM/FFA (4 Mounting Holes)

All components are also available separately. Detailed documentation for each component, along with Quick Start Guides, can be found in our user documentation: www.framos.com/FSM-Startup.

Note: FSM:GO, FSM+FSA or the NVIDIA Developer Kit **are not included** in this kit and must be purchased separately

FSM:GO | FRAMOS

Mouser Electronics

Authorized Distributor

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