State of the Alliance

Peter Lefkin
Managing Director, MIPI Alliance
IN 2003 MIPI ALLIANCE WAS FORMED TO STANDARDIZE CAMERA AND DISPLAY INTERFACES
MIIPI ALLIANCE HAS DEVELOPED ROUGHLY 50 SPECIFICATIONS COVERING THE FULL RANGE OF INTERFACE APPLICATIONS NEEDED FOR MOBILE DEVICES
MIPI Specifications Leveraged Beyond Mobile

Number of current specifications | 50

Fundamentally, usage rights are granted to members royalty free for implementation of MIPI specifications from all MIPI members

© 2020 MIPI Alliance, Inc.
MIPI Alliance Member Ecosystem

- Automotive OEMs/Tier 1 suppliers
- Application Processor Developers
- Semiconductor Companies
- Test Equipment Companies
- Test Labs
- Number of countries: 29
- Device OEMs
- Software Providers
- Consumer Electronics (Cameras, Tablets, PCs/Laptops, Peripherals, Wearables)
- IP and VIP Providers

© 2020 MIPI Alliance, Inc.
MIPI Specifications in IoT

- I3C: Sensor data and control
- CSI-2: Camera
- DSI-2: Display
- M-PHY/UniPro: Storage
- SoundWire/SW13S: Audio
- A-PHY: Long-reach physical layer (in development)
- Debug: Family of specifications
- RFFE: Radio control
- Touch: Human interface
- C-/D-PHY: Short- and medium-reach physical layer
White Paper: Enabling the IoT Opportunity

A closer look at:

- **IoT opportunities** and rapidly growing markets
- **How MIPI specifications** meet key engineering design goals
- **IoT use cases** in smart home, consumer IoT, wearables, smart factory, smart city and healthcare

Download the Paper
www.mipi.org
Delivers the tighter timing precision and reduced latencies needed to advance 5G rollout around the world.

Enhanced triggering features and functionality for synchronizing and scheduling changes in register settings, either within a slave device or across multiple devices:

- Timed triggers
- Mappable triggers
- Extended triggers

Join tomorrow’s presentation:
Snapshot of MIPI RFFE v3.0SM from a System-Architecture Perspective
(10:00 AM PDT) with Lalan Mishra, vice chair of the MIPI RFFE Working Group
MIPI Security: Collaborating on a Framework

- **Security Investigation Group** formed in 2019 to lead the initiative, with input from multiple working groups.

- Focus is on a **MIPI Security Framework** that will steer the development of new security capabilities across the suite of MIPI specifications.
  - Includes methods for **authentication**, **integrity** and **encryption** to secure the camera and display peripherals to their host (ECU) controllers.

- Collaborating with working groups to develop **security specifications for MIPI protocols**
MIPI Liaisons: Extending Our Ecosystem
Follow on us the MIPI blog

Subscribe to the MIPI Alliance Blog:
THE WIRES BEHIND WIRELESS
SUBSCRIBE NOW

www.mipi.org/blog

- Specification insights from working group leaders
- FAQs about new specifications and their implementations
- Q&As with industry leaders
- Event updates
- Industry and Alliance news
Thank You... to MIPI Alliance members for their contributions and support.

Thank You... to MIPI DevCon attendees, speakers, demo participants and sponsors.

Contact me: Peter.Lefkin@team.mipi.org