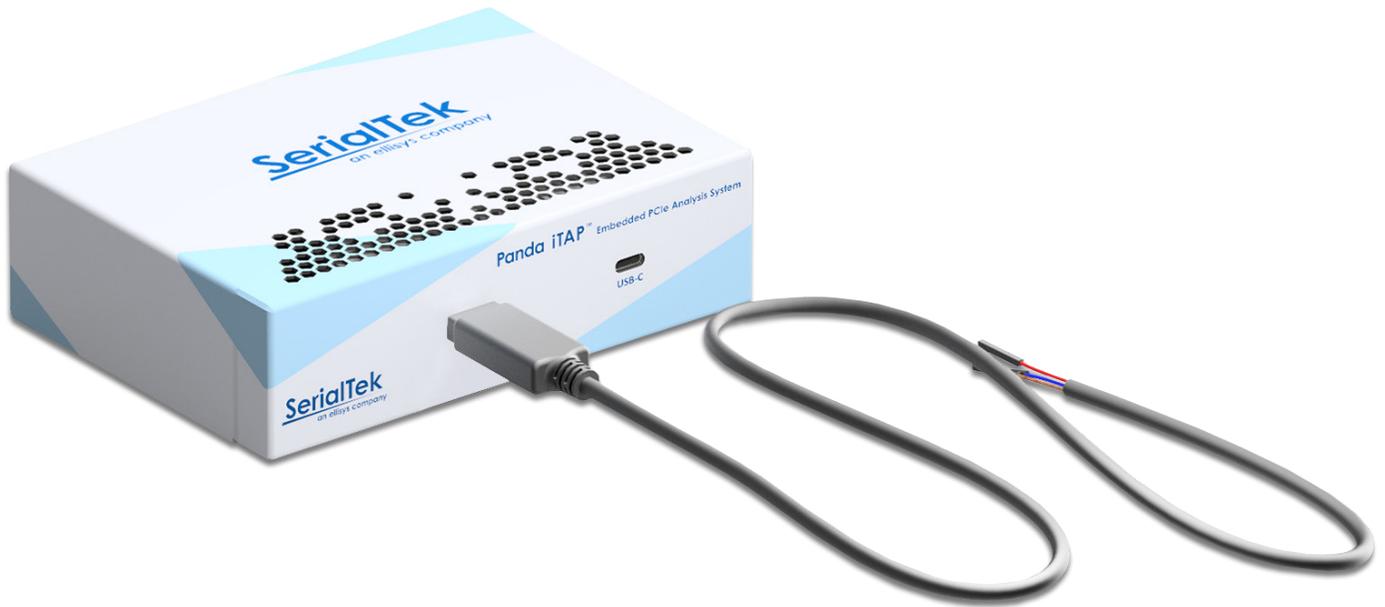# Panda iTAP™

Embedded PCIe® Analysis

Supporting Broadcom ICs Enabled with PEA

Innovative ▪ Powerful ▪ Integrated

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Convenient Access to Embedded PCIe Applications

The Panda appliance conveniently brings together SerialTek's iTAP™ technology and BusXpert™ software with Broadcom PEA technology to smartly solve the problem of analyzing embedded PCIe links in ICs such as the Broadcom PEX89000 PCI Express Gen 5.0 ExpressFabric Platform. The iTAP software is a specialized "tap" framework that is fully integrated with BusXpert, the feature-rich analysis software developed for the revolutionary Kodiak™ PCIe 5.0 Protocol Analysis System.

With the increasing ubiquity of sophisticated, highly integrated systems employing switches and chip-to-chip interconnects, physical limitations to accessing PCIe traffic can prove quite challenging. With the easy access provided by the Panda appliance and SerialTek's PCIe software packages, developers are able to quickly set up, capture, decode, and view PCIe trace data captured on-chip by Broadcom's PCIe Embedded Analyzer (PEA) technology. When used in conjunction with the Kodiak Protocol Analysis System, developers can seamlessly transition between Kodiak's extremely deep traces and iTAP's embedded traces from all instances of PEA stations / ports.

Powerful Features

- Advanced BusXpert analysis software with modern collaborative web UI
- Use in conjunction with full-sized Kodiak PCIe 5.0 protocol analyzers with the same look & feel
- Captures TLPs, DLLPs, and Ordered Sets
- 288K capture buffers per station / port
- Synchronized multi-station capture
- Filtering capabilities
  - Discard TLPs, DLLPs and Ordered Sets
  - Maximize capture buffers efficiency
  - Repeated bytes compression for further buffers optimization
- Triggering capabilities
  - Two-level triggering on input trace data
  - Trigger In: pin-based or routed from internal signals
  - Trigger Out: routed to other trace buffer instances and to a chip output pin

Technical Specifications

Panda Enclosure

- 154 x 100 x 38 mm (6 x 4 x 1.5 in)
- iTAP PEA probe attaches via 1m cable
  - Supports 1.8V and 3.3V operation
  - Individual receptacles for Rx Tx and GND to suit any target board 0.1in pin header

Ordering Information

Description	Code
Panda iTAP Pro - BCOM	PP1A-BPEA-PRO
Panda iTAP Enterprise - BCOM	PP1A-BPEA-ENT

Configurations

	PRO	ENT
Filtering support	x	x
Triggering support	x	x
Multi-probes support		x
Multi-stations support		x
RAM size	4GB	8GB
Storage	240G	480GB
CPU Speed	Fast	Fastest
Hardware Warranty	1yr	2yr
Software Warranty	1yr	2yr

More information at: www.serialtek.com