



Future Proofing Your IL/RL Testing

Wondering what would happen when your customers ask you for extra channels in your fiber solutions? IL/RL testing would become expensive to update with requirements for new large count switches – but there is a much simpler solution. Informed by user feedback, PCT now features ultra-modular **Cascaded Switches**, a licensed Add-On for PCTmax. This innovative feature allows you to chain multiple switches together into a layered architecture, maximizing the value of your existing switches and future-proofing your testing setups. Cascaded Switches can uniquely fulfill your requirements and outperform other less-flexible solutions.



Why Cascaded Switches?

Cascaded Switches are designed for users like you if you need any of the following:

- Have multi-fiber devices under test (DUT) that require a switch for testing
- Want to stay future-proof and adaptable to changing requirements
- Need to perform ultra-high channel count measurements (> 48 channels)
- Wish to integrate existing switches into the PCT architecture seamlessly



Key Benefits

- **Seamless Access with PCTmax:** Cascaded Switches is a licensed feature available for customers using the mORL cassette within a MAP200 or MAP300, running the PCTmax super application. This ensures you have access to the advanced capabilities of the PCT that set your testing and process automation a step above your competition.
- **Flexible Layered Architecture:** With Cascaded Switches, you chain multiple switches in a leader/follower layout. A leader switch connects directly to the mORL, while follower switches connect to the leader switch. This setup offers flexible and scalable testing configurations tailored to your needs.
- **Maximized Value and Futureproofing:** Repurpose your existing switches and easily adapt the system layout for new requirements. This eliminates the need for large, expensive, stand-alone switches, providing a cost-effective solution compared to competitors.
- **Ultra-High Channel Count Testing:** Test ultra-high-count fibers without moving the DUT. For example, control two 1x24 switches with a 1x2 switch, creating a cost-effective alternative to a new 1x48 channel switch. In more complex setups, use a 1x24 leader switch with 24 1x24 follower switches to create a 576-channel test system, avoiding the need for a specialized 600 channel switch.



Common Questions

- **User Interface Appearance:** The PCT architecture behaves as though a larger 1xN switch is constructed from the cascaded switches, simplifying the UI and automation.
- **System Integration and References:** The system measures aggregate length and loss of each channel, reporting values without requiring you to track reference values at different channels.

The user-driven Cascaded Switches feature offers a unique and flexible solution for high-channel count testing, futureproofing, and maximizing the value of your existing equipment. This feature sets VIAVI's Passive Component Test (PCT) system apart from competitors, providing a scalable and cost-effective alternative to traditional switch solutions.



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