

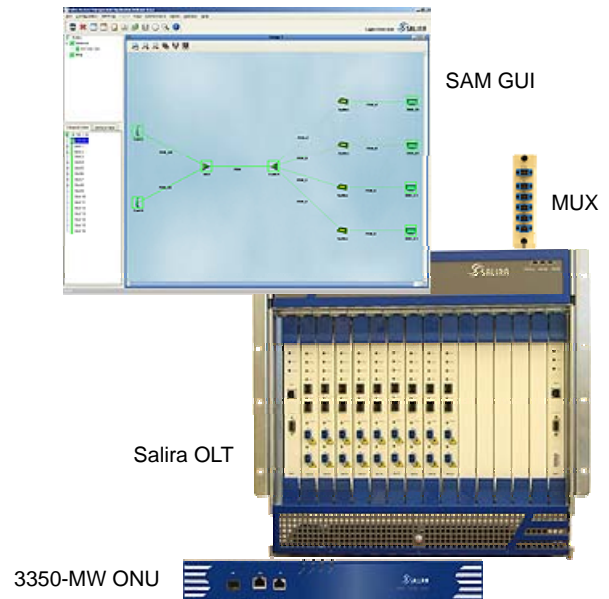
SALIRA MW-PON™

Multi-Wavelength EPON System

HITACHI
Inspire the Next

Product Overview

The Salira MW-PON™ integrates CWDM technology with Gigabit Ethernet PONs to deliver 4Gbps symmetrical data rates through one fiber, effectively quadrupling the bandwidth of Salira's EPON systems. This is achieved by using Salira's innovative multi-wavelength technology while maintaining compliance with IEEE 802.3ah standards. The MW-PON ONU features an SFP-based PON port, designed for flexible installation, operation and maintenance. Salira's MW-PON platform is an MEF-certified carrier-class EMS system supporting full FCAPS functionality and comprehensive fault management and isolation. MW-PON is designed to deliver a variety of IP-based triple play applications to users who require high bandwidth, or to significantly increase end-user density.



Features and Benefits

- Carrier-class, standards-compliant design simplifies integration into central office environment
- 4Gbps bandwidth over a single fiber reduces fiber deployment requirements, compared to EPON and GPON
- Salira's MW-PON can co-exist with current CWDM systems and offers a cost effective solution for equipment and system migration
- Flexible network configuration supports a mix of multi-level services
- Service-oriented access platform with unsurpassed QoS and SLA
- Carrier-class EMS system with full FCAPS functionality and comprehensive fault management and isolation to ensure network stability
- Full redundancy on fan, power and system controller card
- Auto-discovery of ONUs eases deployment process and reduces time to service
- Small form-factor pluggable (SFP) PON port on ONU
- Up to 1:64 split ratio, depending on optical power budgets, fiber distances, available bandwidths

- In EPON platform, remote management is via Salira Optical Line Terminal (OLT) by console, TELNET, Salira Access Management system (SAM), or browser-based WebSAM
- Supports integration into Salira's DOCSIS-compliant DePON™ system, with management functions performed at Salira D-Server instead of OLT

System Feature Summary

- **Layer 2 Switching**
 - 802.3x Flow control
 - IEEE802.1w RSTP
 - IEEE802.1q VLAN, Q-in-Q and private VLAN
 - 802.1p, TOS, DSCP, L4 port, VLAN-based QoS
 - 802.1ag connectivity fault management
 - IGMP snooping v1/v2c
 - Bi-directional rate limiting
- **PON**
 - Real-time Dynamic Bandwidth Allocation (DBA)
 - Carrier-class SLA
 - ONU authentication
 - AES-128 encryption

- **Security**
 - Port-based L2/3/4 security ACL
 - MAC address limiting
 - 802.1x port-based authentication
- **Management**
 - Redundant system control
 - Remote platform management via Command Line Interface (CLI) or GUI-based Salira Access Management application (SAM) or WebSAM
 - Advanced 802.3ah OAM functions
 - SNMP
 - Remote image upgrade via FTP

Specifications

- **Line Cards and Interfaces**
 - System Controller Card (SCC)
 - One Fast Ethernet port for EMS
 - One RS-232 serial port
 - Optical Line Card
 - Two GE slots for SFP module (1000Base-X/T)
 - Two symmetrical 1Gbps PON interfaces
 - Line card type 1: 1470nm and 1490nm
 - Line card type 2: 1510nm and 1530nm
 - 5-port CWDM multiplexer/de-multiplexer
- **PON Optical Module**
 - Two symmetrical 1Gbps PON circuits per line card
 - Wavelengths
 - Downstream 1470-1530nm
 - Upstream 1290-1350nm
 - Output power
 - OLT +2.5 ~ +5dBm
 - ONU +1 ~ +5dBm
 - Input power
 - OLT -30 ~ -8dBm
 - ONU -27.5 ~ 0dBm

- **ONU Interfaces**
 - Standard SFP-based 3350-MW ONU
 - One PON slot for SFP module
 - One 10/100Base-T port
 - One 10/100/1000Base-T port
 - Four wavelength-dependent SFP modules
- **Power**
 - OLT Redundant -48VDC, 460W maximum
 - ONU 100-240VAC (50/60Hz, 0.4A) or -48VDC (10W)
- **Environment**
 - Temperature
 - Operating 32°~122°F (0°~50°C)
 - Non-operating -40°~158°F (-40°~70°C)
 - Humidity 10%~90% (non-condensing)
- **Dimensions**
 - OLT 17.3 x 10.2 x 17.5 inch (WxDxH)
 - ONU 14.0 x 6.8 x 1.73 inch (WxDxH)
- **Weight**
 - OLT 55lbs (25kg)
 - ONU 5.5lbs (2.5kg)
- **Rack mounting** (19-inch or 23-inch)
- **Certification**
 - UL/CSA 1950-60950
 - FCC Part 15 Class A
 - IEC/EN 60950 & 60825
 - RoHS

Product Numbers

2550000	Salira 2550 OLT chassis base
2500010	Salira controller card for 2550 OLT
2550241	MW-PON line card, type 1 (1470/1490nm)
2550242	MW-PON line card, type 2 (1510/1530nm)
3350500	SFP-based 3350-MW ONU (AC power)
3350501	SFP-based 3350-MW ONU (DC power)
9001521	SFP type A (Tx 1290nm, Rx 1470nm)
9001522	SFP type B (Tx 1310nm, Rx 1490nm)
9001523	SFP type C (Tx 1330nm, Rx 1510nm)
9001524	SFP type D (Tx 1350nm, Rx 1530nm)
9010504	5-port CWDM mux/demux