

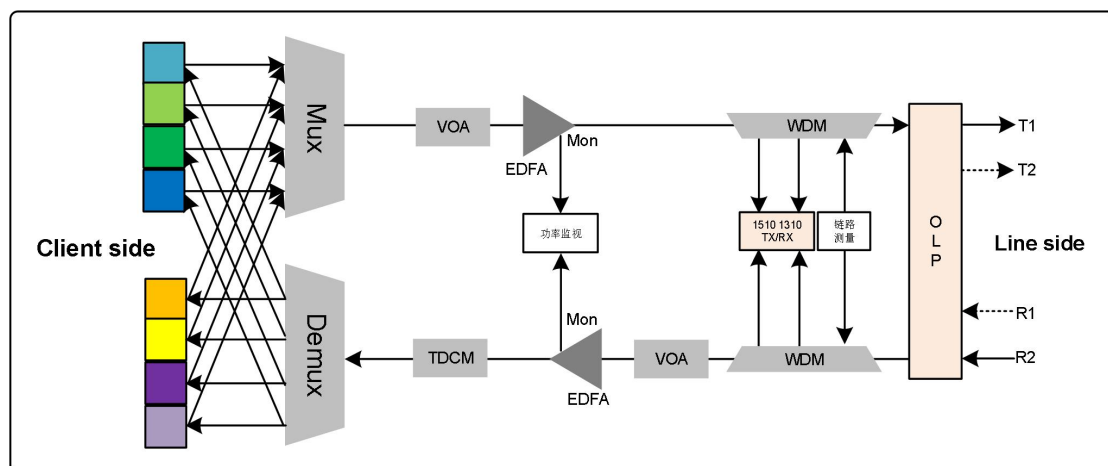
# Smart Optical line System Datasheet

## Smart Optical line System



### ■ Product Description

Smart optical line system is a standardized and open intelligent service transmission platform, which meets various service network scenarios such as access network/metro network/backbone network optical service transmission, data center large-traffic data transmission, and 5G fronthaul network data backhaul. The system integrates various optical fiber communication technologies such as WDM, EDFA, AWG, electrically tunable TDCM, MEMS, optical performance monitoring and analysis, OTDR, etc. (service, link, devices) monitoring capability, suitable for different types of customers, and greatly saves user management and maintenance costs.



### ■ Product Characteristics

- Support DWDM signal access of various coding technology types: PAM4 (40G/100G), NRZ(1-32G), Coherent (QPSK/8QAM/16QAM);
- Supports dispersion/power dynamic adaptive compensation;
- Support optical fiber cable link length, fault monitoring and location;

- Support 1+1 optical line protection;
- Support 40CH TX/RX, 1310 TX/RX, COM port power real-time high-precision monitoring;
- Support 1310nm 40/100G expansion channel, OSC channel;
- The device panel supports visual port service power status and yellow-green dual-color LED alarm;
- Realize the centralized visualization and unified management of 40 service ports' optical power;
- Support Web/SNMP management;

#### ■ Performance Parameter

| Parameter                |                     | Unit | Performance Index          |         |              |
|--------------------------|---------------------|------|----------------------------|---------|--------------|
| Optical Fiber Type       |                     |      | G.652 (SMF-28)             |         |              |
| Service Access Type      |                     |      | Any DWDM signal            |         |              |
| Working Channel          |                     | CH   | 40                         |         |              |
| Link Power Bargain @40CH |                     | dB   | PAM4: 23                   | NRZ: 30 | Coherent: 34 |
| Sourroundings Parameter  | Working Temperature | °C   | -10~ 60°C                  |         |              |
|                          | Storage Temperature | °C   | -40°C~ 85°C                |         |              |
|                          | Relative Moisture   |      | 5% ~ 95% (no condensation) |         |              |
| Size                     | 1U                  | mm   | 482.6W×370D×44.5H          |         |              |
| Power Supply             | AC                  | V    | 100~240,50~60hz            |         |              |
|                          | DC                  | V    | 36~72                      |         |              |
| Power Consumption        | 1U                  | W    | <100 (Max)                 |         |              |

#### ■ Ordering Information

| Function   | Model |       |       |       |
|--|-------|-------|-------|-------|
|  | OLS-1 | OLS-2 | OLS-3 | OLS-4 |
| Support 40CH MUX&DEMUX   | √     | √     | √     | √     |
| Support optical power amplification and automatical adjustment | √     | √     | √     | √     |
| Support 1+1 OLP protection                                     | √     | √     | √     | √     |
| Support 1310 transmission channel                              | √     | √     | √     | √     |
| Support OSC network  | √     | √     | √     | √     |

|  |   |   |   |   |
|--|---|---|---|---|
| management channel   |   |   |   |   |
| Support 40CH service optical power and link optical power monitoring | √ | √ | √ | √ |
| Support dispersion adjustment  |   | √ |   | √ |
| Support optical fiber link measurement                               |   |   | √ | √ |