



# SDH-1620A

# SDH/PDH Transmission Analyzer

**DADI Telecom**

Professional Communication Tester Manufacturer from China



SDH-1620A is an advanced SDH and PDH transmission analyzer. Basic configuration can support in-service monitoring and out of service testing of STM-1, STM-4, E1, E2, E3, E4, DS1 and DS3, optional configuration support STM-16. Being highly affordable, portable, easy to use and scalable, this powerful instrument is ideal for installation and maintenance of SDH and PDH transport networks.

## □ Functions

- BER analysis: BER testing for PDH and SDH, performance analysis per G.821, G.826, G.828, G.829, M.2100 and M.2101, automatically compare test results with ITU-T recommendation
- Anomaly and defect testing: Tx end transmitting anomaly and defect events, Rx end receiving anomaly and defect events with records and statistics, recorded events can be displayed in tables or graphics with filtering
- Overhead testing: overhead emulating transmission and receiving analysis includes two parts. General part including J0/J1/J2/S1/V5/C2, and extended part, all the remaining overhead bytes except A1/A2, B1/B2/B3
- Pointer analysis: generate G.783 pointer and NDF pointer, display pointer value in real-time, record pointer adjustment events including positive, negative and NDF
- APS timing measurement: measure the network switchover time, insert K1K2 sequence at Tx end, preset protection switching trigger condition, capture K1K2 bytes at Rx end
- Round trip delay testing: measure the signal transport time from Tx to Rx
- Timing and synchronization testing: frequency accuracy testing, pull-in range and pull-out range testing
- Tributary scan: auto scan each tributary status like E1, E4, E3/DS3 under AU4



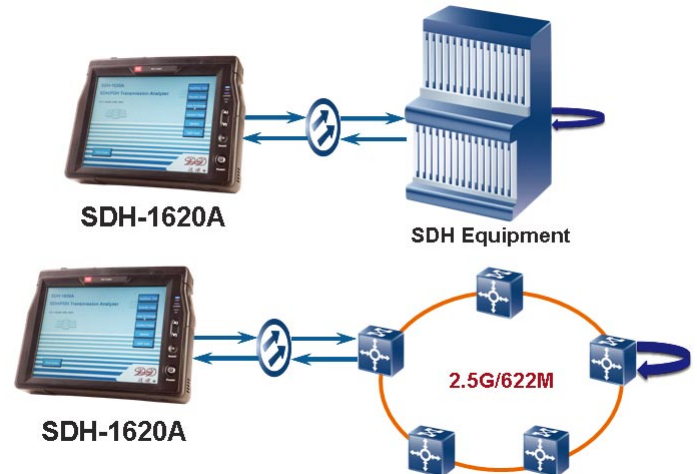
- TCM testing: TCM anomaly and defect and message string analysis
- Optical power testing: real-time display Tx and Rx optical power
- Remote control: remote operation on the instrument by connecting with PC

## □ Features

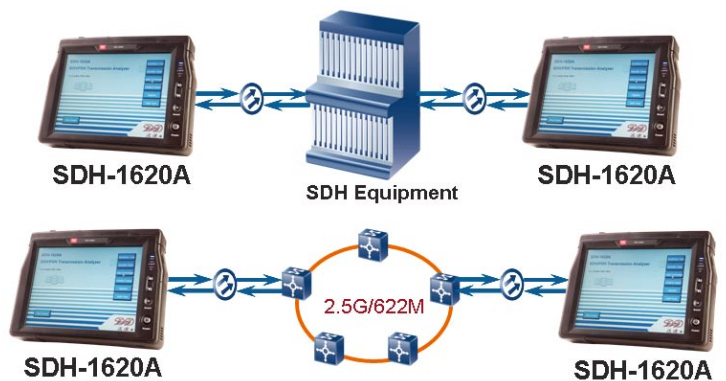
- Embedded operation system, 10.4" TFT LCD, graphic user interface, touch screen and touch pen operation, practical function, easy and convenient operation, operation efficiency is 5 times of similar products
- Simulated indicators for current and history alarm and error status, various information display, indicator quantity and type can be automatically set based on test signal and interface setting
- Multiple tasks can be created and deleted dynamically and freely
- External clock Tx & Rx interfaces
- Mass data storage for BER and alarming event records, events can be displayed in tables or graphics with filtering
- Test records may be saved as HTML or PDF format, and transferred to PC via USB
- Built-in USB printer support

## □ Applications

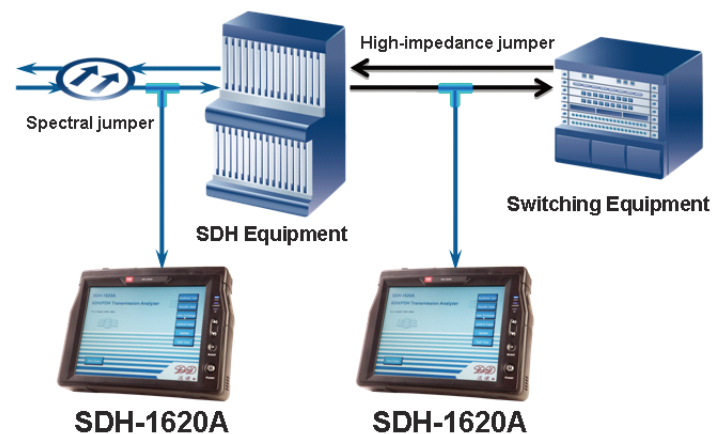
### Remote loopback testing



### End-to-end testing



### In-service monitoring



## □ Specifications

### General

Size	290×210×60 mm
Weight	2.2 kg
Display	Touch screen, color, 10.4" TFT 640×480
Operation mode	touch screen
Interface	USB, RJ45, DC power
Battery	Rechargeable Li-ion battery
Operation time	>3 hours
Operation temperature	-10°C to 50°C
Storage temperature	-20°C to 70°C
Operation humidity	10% to 90%
Storage humidity	5% to 95%
Data storage	1G

### Testing - Optical Interface

Line rate	STM-1: 155.520Mbit/s STM-4: 622.080Mbit/s
Connector	SFP/LC
Optical Tx wavelength	1310nm, 1550 nm
Tx optical power 1310nm	-8 to -15dBm
Tx optical power 1550nm	0 to -5dBm
Rx sensitivity	-28dBm
Rx overload	>= -8dBm
Rx wavelength range	1260nm to 1580nm

Line rate	STM-16: 2488.320Mbit/s
Connector	SFP/LC
Optical Tx wavelength	1310nm, 1550 nm
Tx optical power 1310nm	-3 to -10dBm
Tx optical power 1550nm	0 to -5dBm
Rx sensitivity	-21dBm
Rx over-load point	>= -9dBm
Rx wavelength range	1260nm to 1580nm

### Testing - Electrical Interface

Line rate	155.520Mbit/s
Code	CMI
Resistance	75Ω
Connector	Siemens L9, unbalanced
Standard	ITU-T G.703 standard
Line rate	E1: 2.048 Mbit/s, HDB3, AMI, 75Ω unbalanced, 120Ω balanced E2: 8.448 Mbit/s, HDB3, 75Ω unbalanced E3: 34.368 Mbit/s, HDB3, 75Ω unbalanced E4: 139.264 Mbit/s, CMI, 75Ω unbalanced DS1: 1.544 Mbit/s, B8ZS, AMI, 100Ω balanced DS3: 44.736 Mbit/s, B3ZS, 75Ω unbalanced
Connector	Siemens L9 unbalanced, RJ48 balanced
Standard	ITU-T G.703 standard

For more information: [www.lzdd.com](http://www.lzdd.com) or [lzdd@lzdd.com](mailto:lzdd@lzdd.com)

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