

## 43.5 Gbit/s BERT SYSTEM ME7760A/B 25 to 43.5 Gbit/s



### Measurement Solution for 40 Gbit/s SONET/SDH System and Modules



The ME7760A/B is bit error rate measurement system that measures the bit error rate of transmission signals from 25 to 43.5 Gbit/s. This system is composed of a pulse pattern generator, multiplexer, demultiplexer, error detector and synthesizer. The ME7760A/B is used in the electrical or optical market to perform component evaluations on communication equipment. MX177601A SDH/SONET Pattern Editor Software is provided and can be used to edit a SDH/SONET frame.

#### Features

##### • High quality waveform

A re-timing circuit using a D-type Flip-Flop produces a high quality waveform (small jitter and low wave distortion) and high output amplitude (2 Vp-p).

##### • Measurement with pure PRBS

The MP1775A Pulse Pattern Generator can generate PRBS on 43.5 Gbit/s (selectable pattern length =  $2^n - 1$ : n= 7, 9, 11, 15, 20, 23, 31). The phase of each channel is shifted by 1/4 cycle and the multiplexed signal can be treated as pure PRBS.

##### • Wide operation frequency

The ME7760A has the capability to treat FEC signals up to 40 Gbit/s. A four channel pulse pattern generator (MP1775A) and the four channel error detector (MP1776A) can support 100 Mbit/s to 12.5 Gbit/s signals.

The multiplexer (MP1801A/1803A) and the de-multiplexer (MP1802A/1804A) can support 25 to 43.5 Gbit/s signals.

##### • 32 Mbits pattern memory for OC-768/STM-256

Both the MP1775A and the MP1776A have 32 Mbits pattern memory and are suitable for 40 Gbit/s SDH/SONET frames (OC-768/STM-256). Its pattern can be edited using the MX177601A SDH/SONET Pattern Editor via GPIB interface.

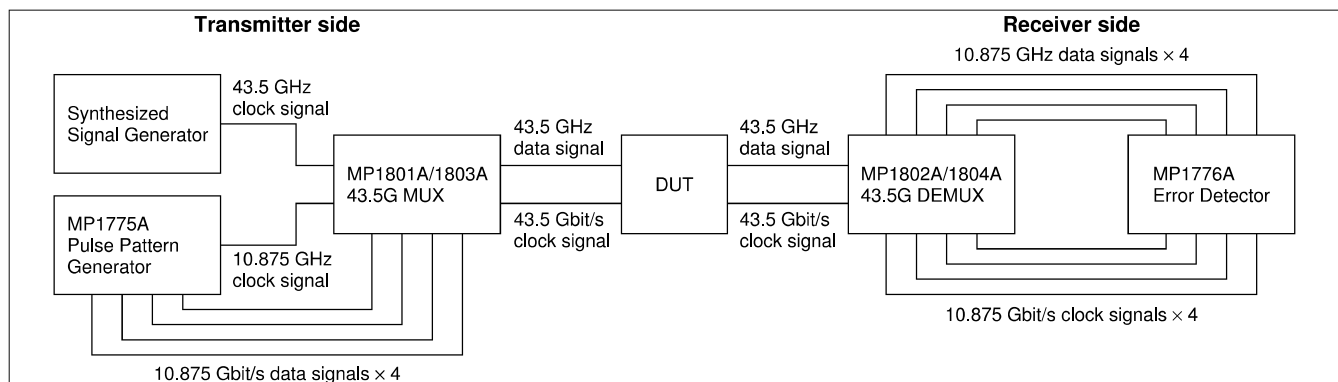
##### • High flexibility

The MP1775A Pulse Pattern Generator and the MP1776A Error Detector can be used as single measurement systems and provide high flexibility in many combinations.

#### Selection guide

	ME7760A	ME7760B
MP1801A	√	
MP1802A	√	
MP1803A*		√
MP1804A*		√
MP1775A	√	√
MP1776A	√	√

\* Custom-made product



System configurations