MEDIA CONVERTER AND FAILURE DETECTION TECHNIQUE

ABSTRACT

A media converter allowing a test mode to be activated from cable side and allowing easy detection of a failure and failure location is disclosed. A media converter includes first and second physical-layer interfaces and a memory connected between the first and second physical-layer interfaces to temporarily storing received data. When a trigger signal has been received at one of the first and second physical-layer interfaces, a response signal to the trigger signal is sent from a corresponding physical-layer interface back to a source that transmitted the trigger signal. The trigger signal is one of a specified modulation link signal and a packet having an illegal length that is not permitted in a network to which the media converter belongs.

FIGURE 1.