

## 1900 Series Media Combiner

## Application Note

Like any two industries that have developed separately, telecommunications and broadcast have their own sets of standards and requirements that do not always coincide. This is apparent in the mismatch between the available standard telecom bandwidths, and the bandwidths that the broadcast industry regularly requires to transport over G.703 networks.

Often the only solution to this is to partially fill the bandwidth that is contracted, which can prove expensive. The 1900 Media Combiner improves bandwidth usage by combining up to eight input signals, either MPEG, G.703 or data onto a single G.703 transport stream hence using the whole of the available bandwidth.

### Bandwidth Usage Optimisation

In this application 5 sources, 2 x LVDS, 2 x ASI and a data source are combined onto a single G.703 transport stream. This is then presented as dual outputs, which are used for alternate routing across the telecom network.

At the receive end, the two G.703 streams are fed into a 2400 Series protection switch which selects the best of these to output to the 1900 Series receiver. Status monitoring and control of both the transmitter and receiver is achieved via a TCP/IP link.

