

FieldCast



FieldCast Multiplexers

Currently we have three basic models, Mux/Demux One, Mux/Demux Two and Mux/Demux Three.

Mux/Demux One is a 4 channel solution;
Mux/Demux Two is an 8 channel solution;
Mux/Demux Three is a 16 channel solution.

Except for the number of channels the three models work exactly the same way. They go one way, doing 4 channels, 8 channels or 16 channels of SDI video from A to B over just one single mode fiber connection.

The technology we use guarantees connections up to 40 kilometers straight line.

Standard we ship with LC connector, but it is no problem to do ST or SC.

The multiplexer has SDI input with reclocked loopthrough for each channel.
The demultiplexer has two SDI outputs for each channel.

Standard models are 3G video.

We have an upgrade path for 6G and 12G in place. However, the prices of 12G sfp is still pretty steep, and we cannot build 8 channel and 16 channel versions yet because for 12G all sixteen CWDM wavelengths are not available yet.

We expect to have all three models at 6G and 12G level by the end of this year, but we are dependent, as other manufacturers, on the availability of the sfp's, and at acceptable price levels.

If customer wants to upgrade, we have to get the set back for doing the necessary alterations.

We can customize all three models in such a way that for every channel the customer can decide which channel goes from A to B and which channel goes from B to A. For instance, a Mux/Demux One set can have the standard 4 channels from A to B, but also can have 3 channels A to B and 1 channel to A.

Attached are a few diagrams to explain basic technology (to keep it easy to grasp they don't show loopthrough at the SDI input side, and the second SDI output at the output side).

Figure 12 and 13 are the diagrams for 4 channel and 8 channel versions. Just double the 8 channel version, and you will have the diagram of the 16 channel version.

As can be seen in figure 18, we can combine SDI and Ethernet in a custom solution. We can do other custom builds as well, on request.

the fiber optic system

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