SMPTE ROADMAP

10 Gb/s Serial Signal/Data Interface

Document Roadmap –

SMPTE ST 435 10 Gb/s Serial Signal/Data Interface is a multi-part document:

Part 1 of SMPTE ST 435 defines the source data of the 10 Gb/s data stream. It is composed from multiple 1.5 Gb/s Basic Streams. The standard classifies applicable source image formats carried on 10 Gb/s interfaces, and defines their system numbers. The standard also defines how the source image formats are sub divided into one or more Basic Streams. The Basic Streams comply with the interleaved data stream structure defined in SMPTE ST 292-1.

Part 2 of SMPTE ST 435 defines the multiplexing schemes to map up to 8 Basic Streams defined by part 1 into the 10 Gb/s Serial Interface. The mapping also supports transmission of the embedded audio, payload ID and other ancillary data defined in SMPTE ST 291 in the source stream.

Part 3 of SMPTE ST 435 defines the optical fiber interface for the serial stream operating at data rates of 10.692 Gb/s and 10.692/1.001 Gb/s. The interface specification defined in this part applies to implementations covering a distance up to 2 km using single-mode fiber.

Approved
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Document Suite Informative Roadmap