

Title (en)
RECONFIGURABLE OPTICAL BACKPLANE

Title (de)
REKONFIGURIERBARE OPTISCHE RÜCKWANDPLATINE

Title (fr)
FOND DE PANIER OPTIQUE RECONFIGURABLE

Publication
EP 3900238 A1 20211027 (FR)

Application
EP 19829613 A 20191220

Priority
• FR 1873949 A 20181221
• EP 2019086792 W 20191220

Abstract (en)
[origin: WO2020128040A1] The invention relates to an optical backplane (50) for an optical communication network architecture (20) distributing data to equipment (70), including: - an optical demultiplexer (51) coupled at input to an optical fiber (40) for carrying at least two multiplexed channels of different wavelengths, a channel (λ_3) for controlling and managing the optical communication network and at least one channel (λ_1 , λ_2) dedicated to a service, and at output to at least two output ports configured to deliver, each, the control and management channel and the at least one channel (λ_1 , λ_2) dedicated to a service, respectively; - an optical wavelength-division multiplexer (57); - a first coupler (52) configured to receive the channel (λ_3) and to transmit one portion of said channel to an interface box (60) coupled to an item of equipment (70), and another portion of said channel to the optical wavelength-division multiplexer (57); - a routing device (53) for each output port of the optical demultiplexer (51), said device being configured to receive a channel (λ_1 , λ_2), and either to transmit said channel (λ_1 , λ_2) to the optical multiplexer when it is in a first position, or to transmit one portion of said channel (λ_1 , λ_2) to the interface box coupled to an item of equipment and another portion of said channel (λ_1 , λ_2) to the optical multiplexer when it is in a second position, said optical wavelength-division multiplexer being configured to combine the received channel (λ_3) and the received at least one channel (λ_1 , λ_2) and to wavelength-division multiplex them onto the optical fiber (40).

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