

ABSTRACT

ETHERNET INTERFACE OVER ATM CELL, UTOPIA, xDSL IN
SINGLE AND MULTIPLE CHANNELS CONVERTER/BRIDGE ON A
SINGLE CHIP AND METHOD OF OPERATION

[0058]

The present invention relates to a converter/bridge between an Ethernet bus and a UTOPIA bus in single or multiple channels. The converter/bridge includes a first conversion device and a second conversion device for converting Ethernet packet into ATM cells and for converting ATM cells into Ethernet packet. The first conversion device includes a first conversion unit, a combining unit and a first transmitting unit. And the second conversion device includes a receiving unit, a second conversion unit and a second transmitting unit. The present invention provides a low cost and efficient transport between the Ethernet and ATM networks.

(FIG. 10)