

9. Functional description

9.1. Block diagram

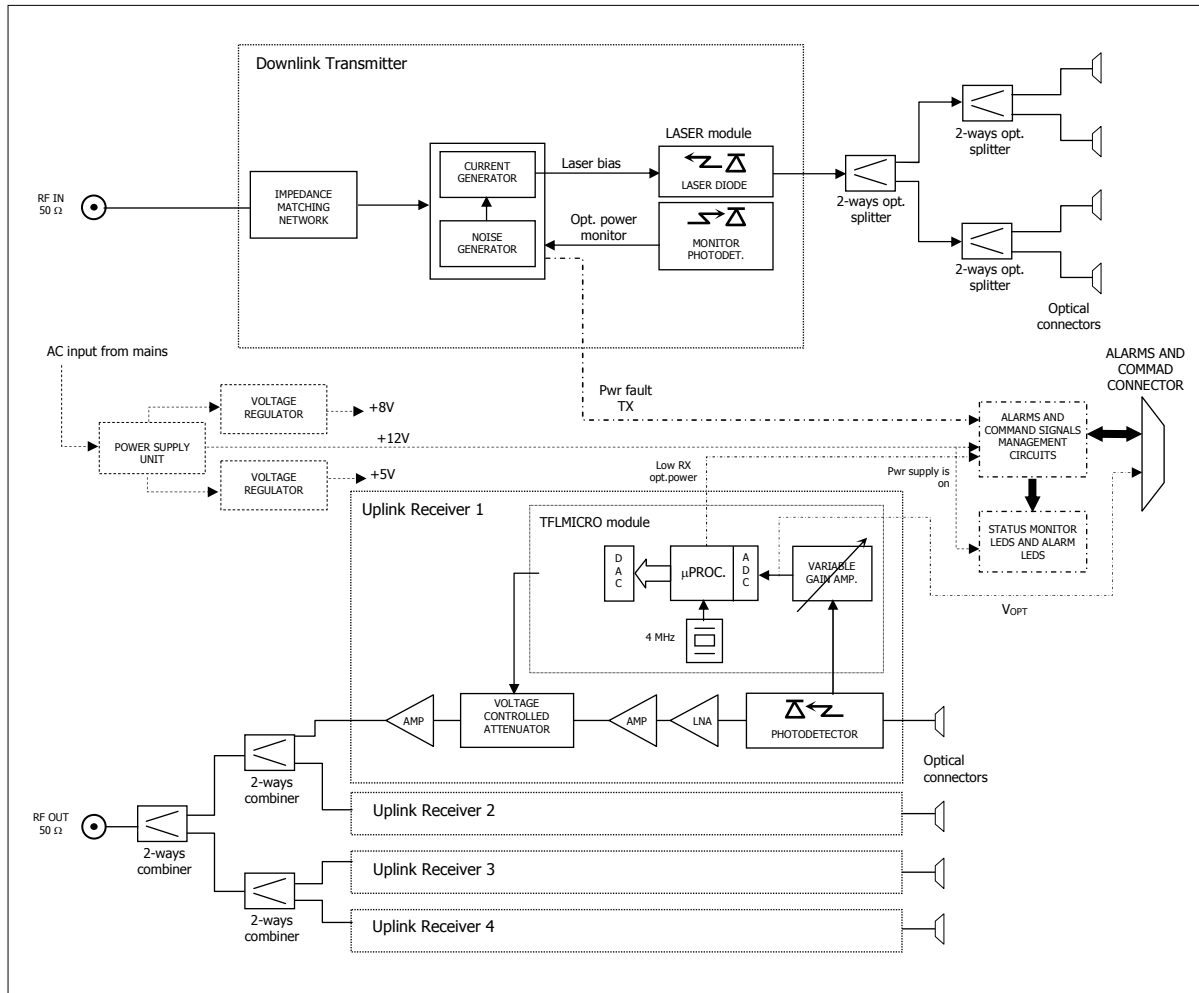


Fig. 8 - block diagram

9.2. Down link operations

In down link the TFL fulfils the following operations:

Power level adjustment:

if the RF signal coming from the BTS has a power level which is not adequate to TFL's characteristics, an external adjustment is required. It consists in an attenuation when BTS is connected through a coupler or through repeater (please refer to TFL-BSI).

E/O Conversion:

RF signal modulates the intensity of an optical carrier through an electro-optic device (laser). One laser is present on each TFL card.

Optical Splitting:

modulated optical carrier is split into 4 ways so that it may be transmitted on a maximum of 4 optical links.