Data storage device mounting assembly comprises a chassis (1) located within the housing (2) of an electronic device, and at least one tray (3) that defines a space for mounting the data storage device (4). The tray (3) is designed to be removably installed in the chassis (1) and consists of a base (5) and side walls (6) perpendicular to the base, designed to slide along the corresponding side walls (7) of the chassis (1), and a front panel (8) positioned between the side walls (6), equipped with a locking element (9) and a gripping element (10). The front element (8) of the tray (3) consists of two sections (11, 12) with a common solid rear wall (13). The first section (11) is formed by the rear wall (13) and an elastic lever (14) attached to the inner edge of one of the side walls (6), which is designed to release the locking element (9) a protrusion on the outer edge of said side wall (6) allowing it to engage with a corresponding opening (15) in the chassis (1). The second section (12) has a box-like shape and is equipped with a manual grip element (10), which is formed as an elongated opening on the front wall of the section (12) and occupies at least half of its area. The front wall of the second section (12) and the free end of the elastic lever (14) of the first section (11) lie in the same plane; when the tray (3) is installed in the chassis (1), the front wall of the second section (12) and the elastic lever (14) of the front element (8) extend beyond its boundaries, wherein remaining within the housing (2) of the electronic device.