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Publication: [OPPO foldable smartwatch](#) - WIPO source: [Wearable electronic device](#)

## OPPO wearable electronic device

The invention applies to the technical field of an electronic device and provides a wearable electronic device. The wearable electronic device comprises a shell, a watchband, a circuit mainboard and a display module. The watchband is fixedly connected with two sides of the shell. The circuit mainboard is mounted in the shell. The display module is mounted on the shell. The display module is a foldable flexible screen body.

A fixed end of the display module is fixed on the shell. According to the wearable electronic device provided by the embodiment, the display module is foldable or stretchable. When a user does exercise, the display module is folded, the length of the display module is reduced to be equal to or smaller than the width of the watchband, so the wearable electronic device is convenient for the user to wear.

When the user needs to watch a video or carry out network communication, the display module is unfolded, an area of the display module is expanded, the vision provided by a large screen is satisfied, and the wearable electronic device is convenient for the user to watch the video or carry out the network communication. According to the wearable electronic device provided by the invention, the free switching between two states can be realized, demands of the user in multiple aspects are satisfied, and the user experience is improved.

## OPPO patent claims

1. Wearable electronic device, comprising shell, watchband, circuit mainboard and display module, the watchband is fixedly connected to two side edges of the shell, and the circuit mainboard is arranged in the shell, the display module is arranged on the shell and is characterized in that the display module is a foldable flexible screen body, wherein the display module is provided with a fixed end and a free end; the fixed end of the display module is fixed on the shell;
2. The wearable electronic device according to claim 1, wherein the top of the housing is provided with an embedding platform, the width of the display module is matched with the width of the embedding platform; after the display module is completely folded, the display module is embedded on the embedding platform;
3. The wearable electronic device according to claim 2, wherein, the length of the display module is  $2N+1$  times of the length of the embedding platform,  $n$  is an integer, and  $n$  is larger than or equal to 1
4. The wearable electronic device according to claim 2, wherein the embedding platform is a groove recessed in the surface of the housing, far away from the fixing end of the display module, of the groove is provided with an opening allowing the free end of the display module to extend out;
5. The wearable electronic device according to any one of claims 2-4. The wearable electronic device is characterized, and a containing groove is formed in one side, away from the fixing end of the display module, of the bottom of the embedding platform, the width of the storage groove is matched with the width of the display module; the free end of the display module is embedded in the storage groove after being rolled;
6. The wearable electronic device according to any one of claims 2-4. The wearable electronic device is characterized, the electronic device further comprises a pressing frame used for pressing the display module, the pressing frame is hollow, and the pressing frame is provided with a fixed end and a free end, the fixing end of the pressing frame is pivoted to one side edge of the embedding platform, and a buckling structure is arranged on the shell, the free end of the pressing frame is provided with a buckling structure; the buckling structure of the pressing frame can be buckled and connected with the buckling structure of the shell;
7. The wearable electronic device according to any one of claims 2-4. The wearable electronic device is characterized, the electronic device further comprises a gland for pressing the display module, and the gland and the shell are of a separated structure, the top of the pressing cover is a transparent area or a hollow area, the pressing cover can cover the embedding platform of the shell in a covering mode and compress the folding display module
8. The wearable electronic device according to any one of claims 2-4. The wearable electronic device is characterized in that the side surface of the free end of the display module protrudes out of the pressing buckle, wherein a clamping groove is formed in the shell; after the display module is folded, the pressing buckle can be buckled and connected with a clamping groove of the shell;
9. The wearable electronic device according to any one of claims 2-4. The wearable electronic device is characterized by further comprising a bracket for supporting the display module, wherein the bracket is arranged in the shell; the bracket is pushed and pulled; the bracket can be embedded in the shell or extends out of the outer side of the shell;
10. The wearable electronic device according to any one of claims 2-4. The wearable electronic device is characterized, the display module at least comprises two display areas which are arranged in sequence along the length direction of the display module; the circuit mainboard can control different display areas to work cooperatively or work independently;