

# Xerographic Components - IOT Module

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## Photoreceptor (Drum)

The machine uses an STX (Standard Material Version X) Organic Photoreceptor. The photoreceptor material is applied to an 84-mm diameter aluminum drum, and has three layers.

1. The top layer is called the Charge Transport Layer and it transports the charge from the surface.
2. The middle layer is called the Charge Generation Layer and generates charges in the presence of light.
3. The bottom layer is called the Blocking layer and insulates the coating from the grounded aluminum drum.
4. The Aluminum Substrate of the drum is electrically grounded with the Drum Shaft. A contact clip is used to ground the Drum Shaft to the machine frame.

**Warning:** The STX organic coating on the photoreceptor is very sensitive to light and should always be covered when removed from the machine. If the photoreceptor is exposed for longer than one minute, it will start to desensitize (Light Shock) and must be refreshed by storing the drum in a dark container.

