Input/Output (Including UI, Sensors)

For brightness control of LCD panel section
- Ambient light sensor (OPIC light detector with visual sensitivity characteristics)
  - Peak sensitivity characteristic close to human visual sensitivity
  - Compact package

For transmission between mobile devices/digital equipment
- IR data communication device with remote control signal transmission function (IrSimple™/IrSS™ compatible)
  - Enables high-speed transfer of image data

For color image input
- CMOS camera module
  - Wide variety of lineup, including the industry’s smallest, thinnest and highest performance-class camera modules.

For human body (proximity of face) detection
- Proximity sensor
  - Detecting distance: TYP. 65 mm
  - Compact package 4.0 x 2.0 x 1.2 mm

Pointing Device
- OFM (Optical Finger Mouse)
  - Smooth operability
  - No mechanical structure (Optical solution)

For one-seg broadcast reception
- One-seg tuner module
  - Compact, thin package (0.4 x 0.5 x 1.0 mm)

For wireless LAN
- Wireless LAN module
- Wireless LAN / Bluetooth combo module

Processing

For image display
- MDDI-compliant LCD controller (for CDMA mobile phone use)
  - MDDI (Mobile Display Digital Interface) compliant
  - Controller for main and sub LCD displays
  - IrSimple™- and IrDA-compliant™ communication devices

For LCD backlight
- High-luminosity white surface-mount LED
  - Thin, high luminosity
  - High-rendering color products are also available

For indicator/decorative lighting
- High-luminosity surface-mount LED (RGB trichromatic)
  - 1.616 size

For operation button lighting
- 0.35-mm-thick surface-mount LED
  - Compact, thin, single-color

For camera flash
- High-luminosity white surface-mount LED
  - Thin, high luminosity

For LCD backlight
- LED driver
  - Automatic brightness control function using the ambient light sensor
  - Enables driving of 9 white LEDs (RGB grid) connected in series

For flashlight
- LED driver
  - Current for LED driving: MAX. 1.5 A
  - High Switching Frequency (6 MHz)

For image display
- High-resolution LCD module
  - LCD with some of the highest resolution, luminosity, and contrast in the industry

Mechanical Structure

(Lens unit) for mechanical position detection and rotation detection
- Compact transmissive-type photointerrupter
  - Compact: 2.26 x 1.4 x 1.6 mm

For part mounting and circuit connection
- Advanced Flex (ADF) printed circuit board «customizable»
  - ADF: Advanced Flex printed circuit board

For auxiliary power supply
- Solar module for mobile devices
  - Module thickness: 0.8 mm

For insulation of and transfer between high- and low-voltage sides of power supply
- Photocoupler compliant with safety standards
  - Safety standard approved/compliant

Power Supply

For solar power supply
- CMOS camera module
  - Wide variety of lineup, including the industry’s smallest, thinnest and highest performance-class camera modules.

Safety standard approved/compliant