

The Yocto-Temperature-IR is a USB temperature sensor based on infrared technology : it will let you remotely measure the temperature via a USB connection, as well as record the ambient temperature on its internal flash for later retrieval when connected again by USB.

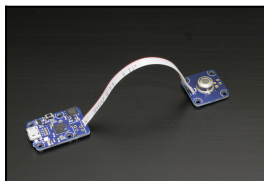
This circuit has been designed so that the infrared sensor itself can be moved further away from the USB connector by a few meters: simply split the board into two parts and solder a 4-wire cable on the designated pads. Up to eight infrared sensors can be attached to the same device. The standard sensor provided on the device is a gradient-compensated, medical accuracy MLX90614ESF-DCA, with a field of view of 90°. The \$PRODDNAME however can use all variants of

MLX90614 sensors. In case you need a Yocto-Temperature-IR built with another variant, contact Yoctopuce support.

Specifications

Product ID	YTEMPIR1
USB connector	micro-B
Width	20 mm
Length	51 mm
Weight	4.6 g
Sensor	MLX90614ESF-DCA
Refresh rate	1 Hz
Measuring range	-70 ... +380 °C
Accuracy	0.5°C / 1.5% (typ)
Max accuracy	0.2 °C
Sensitivity	0.02 °C
IEC protection class	class III
Normal operating temperature	5...40 °C
Extended operating temperature [‡]	-30...85 °C
RoHS compliance	RoHS III (2011/65/UE+2015/863)
USB Vendor ID	0x24E0
USB Device ID	0x008D
Suggested enclosure	YoctoBox-Long-Thin-Black-IR
Harmonized tariff code	8542.3190
Made in	Switzerland

[‡] The extended temperature range is defined based on components specifications and has been tested during a limited duration (1h). When using the device in harsh environments for a long period of time, we strongly advise to run extensive tests before going to production.



For more information: www.yoctopuce.com/EN/products/yocto-temperature-ir