

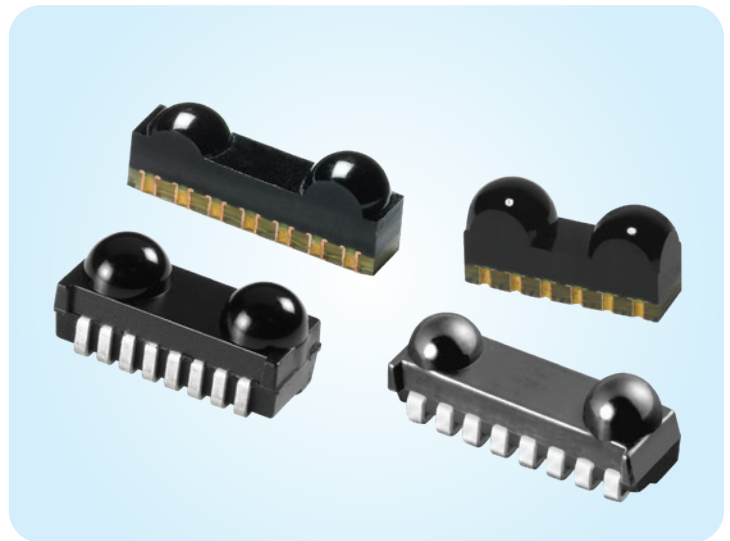
# INFRARED DATA COMMUNICATION TRANSCEIVERS Selector Guide

## FEATURES

- IRDC technology
- I/O voltage flexibility (1.5 V to 5.5 V)

## APPLICATIONS

- Metering
- Medical
- Vending
- Consumer
- Access control



## RESOURCES

- IRDC transceivers product portfolio: [www.vishay.com/en/ir-transceivers/](http://www.vishay.com/en/ir-transceivers/)
- Complete optoelectronics product portfolio: [www.vishay.com/en/optoelectronics/](http://www.vishay.com/en/optoelectronics/)
- Technical support: [irdc@vishay.com](mailto:irdc@vishay.com)
- Sales contacts: [www.vishay.com/doc?99914](http://www.vishay.com/doc?99914)



The DNA of tech.®

Vishay's infrared data transceivers enable short distance wireless communication. Vishay offers a transceiver for every application. The IRDC product segment is of strategic importance for Vishay. While other suppliers have or are in the process of completely abandoning the market, Vishay is committed to maintaining availability of 115 kbit/s transceivers.

In case you need any design-in support or samples, you are welcome to contact us at [irdc@vishay.com](mailto:irdc@vishay.com) or through our website at <https://www.vishay.com/en/ir-transceivers/>.

## I/O Voltage

To eliminate the need for voltage level converters and to enable direct connection to a microcontroller, the TFBS4652 features I/O voltage levels that are dependent on the voltage of an external power supply connected to the transceivers. These support I/O voltage levels down to 1.5 V.

## IRDC Transceivers

Part Number	Size H x L x W (mm)	Link Distance (m)	Operating Voltage (V)	Idle Supply Current (mA)	Shutdown Current (µA)	Pins	Pad Pitch (mm)	I/O Voltage Supply (V)	TXD - Echo
<b>115 kbit/s SIR</b>									
<a href="#">TFDU4101</a>	4.0 x 9.7 x 4.7	0 to ≥ 1.0	2.4 to 5.5	0.07	0.01	8	1.0	-	On
<a href="#">TFDU4301</a>	3.1 x 8.5 x 2.5	0 to ≥ 1.0	2.4 to 5.5	0.07	0.01	8	0.95	-	On
<a href="#">TFBS4711</a>	1.9 x 6.0 x 3.0	0 to ≥ 1.0	2.4 to 5.5	0.07	0.01	6	0.95	-	On
<a href="#">TFBS4650</a>	1.6 x 6.8 x 2.8	0 to ≥ 1.0	2.4 to 5.5	0.07	0.01	7	0.95	-	On
<a href="#">TFBS4652</a>	1.6 x 6.8 x 2.8	0 to ≥ 1.0	2.4 to 5.5	0.07	0.01	7	0.95	≥ 1.5	On



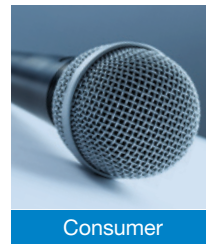
Metering



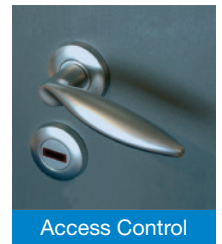
Medical



Vending



Consumer



Access Control