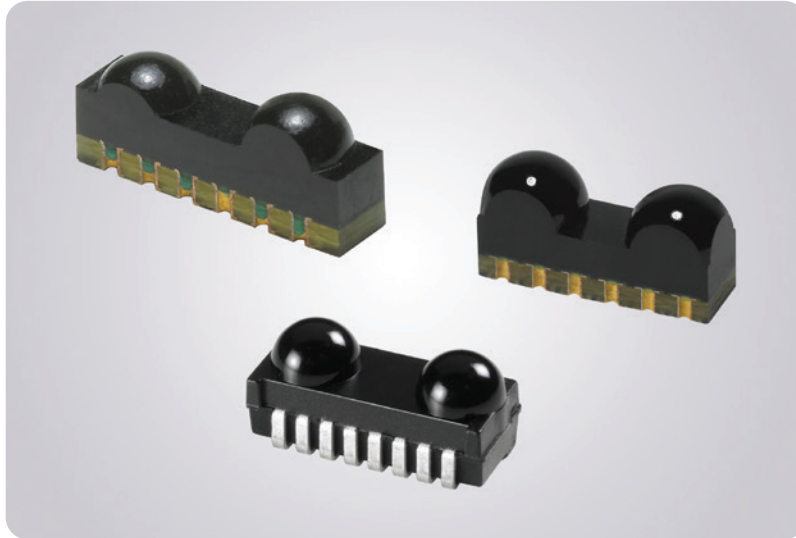




The DNA of tech.™

Infrared Data Communication Transceivers



FEATURES

- IRDC technology
- I/O voltage flexibility (1.5 V to 1.8 V)

APPLICATIONS

- Metering
- Medical
- Vending
- Consumer
- Access control

RESOURCES

- IRDC Transceivers product portfolio: www.vishay.com/ir-transceivers/
- Complete optoelectronics product portfolio: www.vishay.com/optoelectronics/
- Technical support: irdc@vishay.com
- Sales contacts: 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 or through our website at www.vishay.com/ir-transceivers.

I/O Voltage

To eliminate the need for voltage level converters and to enable direct connection to a microcontroller, many of Vishay's transceivers feature I/O voltage levels equal to 1.8 V. For further I/O voltage flexibility, some of Vishay's transceivers feature 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 x mm x mm)	Link Distance (m)	Operating Voltage (V)	Idle Supply Current (mA)	Shutdown Current (μ A)	Pins	Pad Pitch (mm)	I/O Voltage Supply (V)	TXD - Echo
115 kbit/s SIR									
TFDU4101	4.0 x 9.7 x 4.7	0 to \geq 1.0	2.4 to 5.5	0.07	0.01	8	1.0	-	On
TFDU4301	2.5 x 8.3 x 3.0	0 to \geq 0.7	2.4 to 5.5	0.07	0.01	8	0.95	-	On
TFBS4711	1.9 x 6.0 x 3.1	0 to \geq 0.5	2.4 to 5.5	0.07	0.01	6	0.95	-	On
TFBS4650	1.6 x 6.8 x 2.8	0 to \geq 0.3	2.4 to 3.6	0.07	0.01	7	0.95	-	On
TFBS4652	1.6 x 6.8 x 2.8	0 to \geq 0.3	2.4 to 3.6	0.07	0.01	7	0.95	\geq 1.5	On



Metering



Medical



Vending



Consumer



Access Control