Device Image	Manufacturer	Modell	Processor and Antenna Ports	Dimension s (L x B x H)	Applications	Reader Receiver Sensitivity Range Read Range
				in cm		

Gate Reader

- Have higher power output than other kind of readers

- Medium to high performance
 Generally, have multiple external ports at their disposal
 In interaction with multiplexers have the ability to connect to up to 32 RFID antennas
 Sensitivity ranges from -70 to -90 dBm

- Sensitivity ranges from -70 to -90 dBm								
Lilery Files	Alien	ALR_F800	ARM9 677MHz processor, Linux, 1GByte DDR3 RAM, 2 GBytes Flash 4 reverse polarity TNC monostatic ports; circular or linear polarization; near and far field compatible	20.2 x 19.1 x 2.8 cm	Installation Operations Multiple Reader visualization and Management	Sensitivity Range measured -76 dBm to -87 dBm		
And And and and an analysis of the second and analysis of the second analysis of the second and analysis of the second and analysis of the second analysis of the second and analysis of the second analysis of the second and analysis of the second analysis of	Alien	ALR_9680	Four with RTNC connector	18.41 x 24.13 x 3.17 cm	Supply Chain Manufacturing and Asset Management Applications			
	Alien	ALR_9900	XScale processor, 4 reverse polarity TNC monostatic	20.3 x 17.8 x 4.1 cm	Supply Chain Manufacturing and Asset Management Applications	Sensitivity Range measured -77 dBm to -79 dBm		

JETTERY BY JETTER BY THE PARTY			ports; circular or linear polarization; near and far fi eld compatible			
Samuel Control of the	Impinj	Speedway R420	4x Antenna Ports	19 x 17.5 x 3 cm	Retail Solar plant monitoring Warehouse Manufacturing	Sensitivity Range measured -70 dBm to -73 dBm Datasheet -84dBm Maximum Read rate 1100 tag/s
STREET, STREET	Impiinj	Speedway R220	2x Antenna Ports	19 x 17.5 x 3 cm	Retail Solar plant monitoring Warehouse Manufacturing	Sensitivity Range Datasheet -84 dBm Maximum Read rate 200 tag/s
IMPINJ'	Impinj	Speedway R120	1x Antenna Ports	19 x 17.5 x 3 cm	Retail Solar plant monitoring Warehouse Manufacturing	Sensitivity Range Datasheet -84 dBm Maximum Read rate 200 tag/s
	Impinj	R700	Dual-Core 1 GHz ARM processor 4x Antenna Ports	21.5 x 18.7 x 3.0 cm	Retail Solar plant monitoring Warehouse Manufacturing	Sensitivity Range Datasheet -92 dBm Read rate up to 1100 per second
	Impinj	xArray Gateway		46.7 x 46.7 x 7.5 cm	Identify & Locate RFID Tagged Items	Sensitivity Range Datasheet -82 dBm Read Range -

THE STREET STREE	Kathrein	RRU 4560	ARMv7-A based processor with 600 MHz 4 antenna ports	30 x 30 x 7.1 cm	Logistics Industrial Automation Vehicle Identification Smart City Applications	Sensitivity Range measured -77 dBm to -80 dBm
CONTROL OF STREET	Kathrein	ARU 3560	ARMv7-A based processor with 600 MHz 4 antenna ports	30 x 30 x 7.1 cm	Logistics Industrial Automation Vehicle Identification	Sensitivity Range measured -82 dBm to -83 dBm
MATTHEWS	Kathrein	RRU 4500	ARMv7-A based processor, 2 cores @ 800 MHz 4 antenna ports	30 x 30 x 7.1 cm	Logistics Industrial Automation Vehicle Identification	Sensitivity Range Datasheet -80 dBm
HOYMREIG 101 100 1 3 3 3 5	Kathrein	RRU 1400	ARMv7-A based processor with 600 MHz 4 antenna ports	16 x 16 x 26 cm	Logistics Industrial Automation Access Control eKanban Applications	Sensitivity Range Datasheet -70 dBm
	Nordic ID	AR62	1.2GHz 64-bit Quad-Core Cortex-A53 processor	21 x 12 x 3.1 cm	Technology, product and integration training Technology and project consultation Project management services	Sensitivity Range Datasheet -81dBm Reader speed up to 1000 tags/s

norde*id	Nordic ID	AR82	1.2GHz 64-bit Quad-Core Cortex-A53 processor Radiation beams: 13 (26 radiation states due to dual polarization) Polarization: Dual-Linear 3dB Beam width: 45 ° Beam steering: ± 40	40.5 x 40.5 x 6.8 cm	Technology, product and integration training Technology and project consultation Project Management	Sensitivity Range Datasheet -81dBm Reader speed up to 1000 tags/s
Community is a second s		R4320P		50		Sensitivity Range Datasheet -84dBm

OCARMOTH !!	Rcaenrfid	Quattro Model R4321P	ARM9 @ 400MHz on Atmel AT91SAM9G25	140 x 210 x 27	RAIN RFID portals for logistics Industrial automation reading Points Smart shelves and smart display	
			4 TNC Reverse Polarity			
C. TERRA	Zebra	FX9600	Texas Instruments AM3505 (600 MHz FX9600-4: 4 monostatic ports; (Reverse Polarity TNC) FX9600-8: 8 monostatic ports; (Reverse Polarity TNC)	27.3 x 18.4 x 5.0 cm	Team-level tagging Asset tracking Pickup and delivery confirmation	Sensitivity Range measured -74 dBm to -76 dBm Datasheet -86 dBm
	Zebra	FX7500	FX 7500-2: 2 mono-static ports (Reverse Polarity TNC) FX 7500-4: 4 mono-static ports (Reverse Polarity TNC)	19.56 x 14.9 x 4.32 cm	Warehouse Retail Store distribution Center	Sensitivity Range Datasheet -82 dBm Reader performance up to 1200 tags/sec

Zebra	ST5500	Texas Instruments AM3505 (600 MHz FX 7500-2: 2 mono-static ports (Reverse Polarity TNC) FX 7500-4: 4 mono-static ports (Reverse Polarity TNC)	19.56 x 14.99 x 4.32 cm	Warehouse Retail Store distribution Center	Sensitivity Range Datasheet -82 dBm
Zebra	FX9500	Marvell 88AP270 (624MHz) FX9500-4: 4 monostatic or 2 bistatic ports (Reverse Polarity TNC) FX9500-8: 8 monostatic or 4 bistatic ports	27.3 x 18.4 x 5 cm	Warehousing Management Manufacturing Industries	Sensitivity Range Datasheet -84,5 dBm

Specialized Reader

- Usually lower output power for special application
 Intented for smaller reading zones with low traffic of tagged items
 Have Integrated Antennas
 Smaller form factors designed for indoor applications
 Sensitivity ranges from -50 to -83 dBm

	Feig	MRU102	3x SMA socket	14.5 x 8.7	Unused self-service	Sensitivity Range
200			(50 Ω), 1x	x 2.7 cm	stations / kiosks	measured
			internal		Detection of	-49 dBm to
			antenna		containers in the	-50 dBm
					refill control	
						Read Range up
						to 50 cm

METEROFIE HFM	Hermos	Compact Reader	RS232 and Ethernet interface 6 antenna ports 4 DIP switches and 3 status LEDs I/O module with inputs and outputs per antenna port	13 x 12.4 x 4.5 cm		Sensitivity Range measured -54 dBm to -58 dBm Reader Range HF midrange 13.56MHz
HERMOS tozor.orde one-dute (((• 1))	Hermos	Display Reader	3.5" LCD display with touch 6 status LEDs and a buzzer PoE Ethernet data interface Integrated antenna	12 x 12 x 4.2 cm		Sensitivity Range measured -44 dBm to -54 dBm
Total Control of the	Nordic ID	EXA31	Nordic ID NUR-05WL2 reader module Circular polarization	7.7 x 4.8 2.4 cm	Project Management Technology and project consultation	Sensitivity Range measured -49 dBm to -57 dBm Read Range up to 2 m
The state of the s	Nordic ID	EXA51	Software controlled antenna modes: linear (horizontal & vertical)	196 x 83 x 21	Retail Logistics	Sensivity Range Datasheet -77dBm Read Range up to 10m Reader performance up to 1000 tags/sec

SICK	SICK	RFU610e	RFID read/write device with integrated antenna Polarization circular	9.2 x 8.0 x 3.8 cm	Sensitivity Range measured -58 dBm to -59 dBm Read Range up to 0.5 m
	SICK	RFU630- 04101	RFID read/write device without integrated antenna 4 Extern Antennas	23.9 x 19.7 x 4 cm	Sensitivity Range measured -72 dBm to -79 dBm Read Range up to 10 m
	SICK	RFU630- 04100	RFID read/write device without integrated antenna 4 Extern Antennas	23.9 x 19.7 x 4 cm	Sensitivity Range measured -79 dBm to -82 dBm Read Range up to 10 m
SICK	SICK	RFU620- 10500	RFID read/write device with integrated antenna Polarization circular	13.7 x 13.1 x 5.6 cm	Sensitivity Range measured -52 dBm to -65 dBm Read Range up to 2 m
	SICK	RFU650- 10100	RFID read/write device with integrated antenna Polarization circular	40 x 25.2 x 70 cm	Sensitivity Range measured -74 dBm to -83 dBm Read Range up to 10 m

Handheld Reader

- Antennas are integrated inside the reader
- High mobility and flexibility while reading RFID tags High user configuration and addition of features
- Rugged designs for industrial use
- Models with onboard computers or connection to smart devices via Bluetooth
- Sensitivity ranges from -55 to 84dBm

	ACD	M2Smart	Multicore CPU, 4 x ARM Cortex-A53, 1 x Cortex-M4	17.4 x 8.2 x 2.8 cm	Industry Retail trade Warehouse Administration Incoming/outcoming Goods	Sensitivity Range measured -58 dBm to -70 dBm
0,000	ACD	M2Smart_N	NXP® i.MX8M Mini, 4x Cortex A53 (4x 1,8 GHz) und 1x Cortex M4 (1x 400 MHz)	17.4 x 8.2 x 2.8 cm	Industry Retail trade Warehouse Administration Incoming/outcoming Goods	Sensitivity Range measured -54 dBm to -64 dBm
	Chainway	C71	Cortex-A53 2.5/2.3 GHz Octa-core	16.4 x 7.8 x 1.7 cm	Logistics Warehousing Retail	Sensitivity Range measured -60 dBm to -65 dBm Read Range 2 – 4 m
FEIG	Feig	HyWear		6 x 5 x 2.3 cm	Manufacturing Distribution Parcel services	Sensitivity Range measured -60 dBm to -55 dBm

	ID Tronic	C4	Quad A53 1.3 GHz quad-core Circular antenna 2 dBi	17 × 8.5 × 2.3 cm	Access Control Asset Tracking Maintenance	Sensitivity Range measured -35 dBm to -63 dBm Read Range up to 1.5 m
	Nordic ID	Merlin	ARM11 532 MHz Horizontal linear polarized	23 x 9 x 4.7 cm	Technology, product and integration training Technology and project consultation Project management services	Sensitivity Range measured -31 dBm to -76 dBm Read Range up to 2.5 m
	Nordic ID	Morphic	ARM11™ 532 MHz	14.7 x 5.4 x 3.5 cm	Logistics Retail Warehouse	Sensitivity Range measured -56 dBm to -65 dBm Read Range up to 2.5 m
Podela	Nordic ID	HH53	Quad-Core ARM Cortex-A9 1GHz	196 x 83 x 21	Logistics Retail Warehouse	Sensitivity Range Datasheet -77dBm Read Range up to 1m Maximum Read rate 1000 tag/s
	Nordic ID	HH83	CPU: Octa- Core ARM Cortex-A53 1.8 GHz	17.7 x 7.8 x 3.5 cm	Logistics Retail Warehouse	Sensitivity Range measured -71 dBm to -82 dBm Datasheet -80 dBm Read Range up to 15 m

			Cortex-A53 1.8GHz Software controllable antenna polarizations (vertical, horizontal or vertical/horizontal switching)		Retail Warehouse	Sensitivity Range Datasheet -80dBm Read Range up to 15m Maximum Read rate 1000 tag/s
to to the total of	Silion	SIR3522	ARM Cortex-M4 Built in flexile Antenna	165 x 120 x 60		Read Range 5cm up to 20cm Maximum Read rate 200tags/s
	Technology Solutions	2128P Bluetooth Uhf RFID reader	TSL custom module with embedded Impinj R2000 Right Hand Circularly Polarized with optional 2D scanner	158 x98 x 170		Read Range up to 9 m
	Zebra	MC9190Z	Marvell PXA320 processor at 806 MHz Antenna Internal	27.3 x 11.9 x 19.5 cm	Team-level tagging Asset tracking Pickup and delivery confirmation	Sensitivity Range measured -70 dBm to -81 dBm Read Range up to 9.14 m

		Integrated, linearly polarized			Write Range up to 1.22 m
Zebra	MC3390r	Qualcomm 8056 1,8-GHz- Hexa-Core, 64 Bit, with Performance optimization Integrated, linearly polarized	6.45 x 7.8 x 10.67 cm	Team-level tagging Asset tracking Pickup and delivery confirmation	Sensitivity Range measured -77 dBm to -85 dBm Read Range up to 18 m
Zebra	RFD40		15.1 x 8.4 x 16.65	Retail Hospitality Healthcare	Read Range up to 6+m Maximum Read rate 1300+tags/sec