








RAIN RFID Technology: Your Way to a Successful Future!

Kathrein Solutions passive UHF RFID Reader Hardware includes stationary reader and antennas with a read range from a few centimetres up to several meters. With those high end devices logistics, industrial automation, healthcare and vehicle identification applications can be covered.

Kathrein Solutions Reader Portfolio					
Type	RRU 1400	ARU 2400	ARU 3500	RRU 4500	ARU 8500
Specifications					
Air interface protocol	RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 compliant				
Integrated antenna		1	1		3 (direction detection)
Ports for ext. antennas	4	3	3	4	3
Read zone ©KRAI	32	25	4	32	6
Transmit power [max. dBm]	+30	+30	+33	+33	+33
Sensitivity [dBm]	typ. -70	typ. -70	typ. -80	typ. -80	typ. -80
Tag per-second	500	500	1.000	1.000	600
Processor speed	ARMv7-A based processor with 600 MHz			ARMv7-A based processor, 2 cores @ 800 MHz	
Flash memory eMMC [Mbyte]	4.000	4.000	8.000	8.000	8.000
RAM DDR2 [Mbyte]	128	128	1.000	1.000	1.000
Ethernet ports	1	1	2	2	2
GPIO - Input/output	2/2	2/2	4/4	4/4	4/4
LED visualisation	4	4	4 + 8	4 + 8	4
Degree of protection	IP40	IP40	IP67	IP67	IP40
Wireless interfaces	WiFi, BLE, 4G				
Key characteristics					
RFID performance	■ ■ ■ ■ ■ □ □	■ ■ ■ ■ ■ □ □	■ ■ ■ ■ ■ ■ ■ □	■ ■ ■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ ■ □
Network & security	■ ■ ■ ■ ■ □ □	■ ■ ■ ■ ■ □ □	■ ■ ■ ■ ■ □ □	■ ■ ■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ □ □
Connectivity	■ ■ ■ ■ □ □ □	■ ■ ■ ■ □ □ □	■ ■ ■ ■ ■ □ □	■ ■ ■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ □ □
Use case					
Manufacturing and Automotive	✓	✓	✓	✓	
Logistics	✓	✓	✓	✓	✓
Track & Trace	✓	✓		✓	✓
Intelligent Transportation Systems			✓	✓	
Healthcare	✓	✓		✓	✓