

The Kathrein ARU 3400 antenna reader is the next generation of RAIN RFID readers with an integrated 65° wide-range antenna. It is the first choice for professional IoT solutions, such as industrial automation and vehicle identification in ruggedised environments.

Its best-in-class 30-dBm UHF RF unit and connectivity interface PoE+ and the basic processing unit change the way identification works.

Based on the latest RFID standards, such as EPC Gen2v2/ISO 18000-63, Kathrein ARU 3400 antenna reader supports all market-leading transponder chip features for security, authentification and encoding.





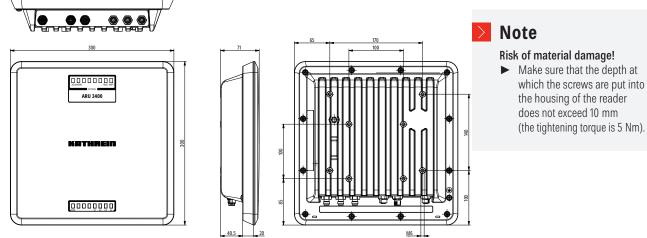
### Features

- ruggedised basic RAIN RFID reader with an integrated antenna
- 3 antenna ports
- +30 dBm port power
- GPIO
- PoE+
- basic computing module
- basic LED visualisation
- IP67 outdoor use
- type approval for Europe, US and RoW

# Key Applications

- Logistics
- Industrial Automation
- Vehicle Identification
- Smart City Applications

# Dimensions [mm]



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# **General Specifications**

Type Order number		ETSI Version ARU 3400	FCC Version ARU 3400	
		52010291	52010299	
RFID				
Frequency range	[MHz]	865-868	902–928	
Frequency range,	[MHz]			
country-specific		005 007	_	
India Morocco		865–867 867.6–868		
Impedance antenna port	[0hm]	50		
Max. TX power conducted	[dBm]	30	30	
Max. TX power radiated	[ERP (ETSI)/	33 (27 for Marocco)		
·	EIRP (FCC)]	, , ,	36	
RX sensitivity	[dBm]	typ	-80	
Number of antenna ports	[R-TNC]	3		
Standards		EN302208-2 V2.1.1, EN301489-3, EN50364, EN62368-1, EN60529, EPC Gen2 V2, UCODE DNA	FCC Part15, UL, IC, EPC Gen2 V2, UCODE DNA	
Antenna	K			
Half-power beam width	[°]	65		
Gain, linear	[dBi]			
Gain, circular	[dBiC]	8.	5	
Voltage				
Local supply	[VDC]	+10 to +30		
Connector		M12, A-coded, 4-pole		
Remote feed	[VDC]	PoE+ according to 802.3at (35–57) Make sure that the router/switch supports 30 W in the static mode.		
		<ul> <li>Use the cable the length of which does not exceed 100 m.</li> </ul>		
			<ul> <li>Make sure to use a Cat 6 cable or a higher level cable.</li> <li>Note that the internal supply of GPIO-VCC-pin is not possible with PoE+.</li> </ul>	
0				
Connector		M12, X-coded, 8-	pole, port i only	
Power consumption	<b>Г/</b> /Л	20		
Local supply Remote feed	[W] [W]	20		
Ethernet	[vv]	2(	J	
Number of Ethernet ports		1		
Data rate	[Mbit/s]	10/1	00	
Connector	[	M12, X-cod		
LED visualisation			···, · · · · ·	
Freely programmable		4		
Fixed		1 (power LED)		
GPIO		XI · · ·	·	
Туре		3 inputs, 3 outputs (doul	ble insulation possible)	
Max. input voltage	[V]	30		
Max. output voltage	[V]	30		
Max. current per output port	[mA]	500		
Max. current over all outputs	[mA]	1500		
Connector		M12, A-coded, 12-pole		

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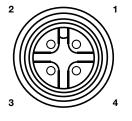
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### General Specifications

RFID controller				
Processor		ARMv7-A based processor with 600 MHz		
Flash memory eMMC	[Gbyte]	4		
RAM DDR2	[Mbyte]	128		
Operating system		Linux		
Mechanical properties				
Weight	[kg]	4.00		
Degree of protection		IP67		
Operating temperature range	[°C]	-20 to +55		
Storage temperature range	[°C]	-40 to +85		
Dimensions (L x W x H)	[mm]	300 x 300 x 71		

# Power Supply

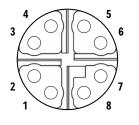
#### M12, A-coded, 4-pin, male



Pinout Power Supply			
Pin	Allocation		
1	+24 V DC		
2	GND		
3	GND		
4	+24 V DC		

### **Ethernet**

#### M12, X-coded, 8-pin, female

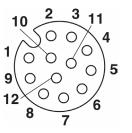


#### **Pinout communication PoE+**

Pin	Allocation		
1	TX+ / PoE+1		
2	TX- / PoE+1		
3	RX+ / PoE+2		
4	RX- / PoE+2		
5	PoE+1		
6	PoE+1		
7	PoE+2		
8	PoE+2		

**GPIO** 

### M12, A-coded, 12-pin, female



#### Pinout general purpose input output

Pin	Allocation	Pin	Allocation
1	OUT_CMN	7	UB
2	OUTPUT_1	8	OUTPUT_4
3	INPUT_3	9	OUTPUT_3
4	INPUT_CMN	10	OUTPUT_2
5	INPUT_1	11	INPUT_2
6	GND	12	INPUT_4

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