2.4G Long Range Reader

Micro ID 2.4G directional long-range reader is using high performance industrial 32bit ARM Corte-M3 microcontroller. It built with 14dBi high-gain directional antenna and with signal attenuator, reading distance can be adjusted from 1 to 50 meters. Micro ID 2.4G long range reader can connect to controller with Wiegand 26 or 34 bits interface.

Processor	Industrial 32bit ARM Corte-M3 microcontroller(MPU)
Processor main frequency	70MHz
Reading Capacity	1000tags/s
Buffer Capacity	1000tags（anti-reread）
Reading Distance	Maximum 50meters
Attenuation Distance	0-50m adjustable (distance error ±15%)
Adjustable Distance	Clockwise for far, anticlockwise for near
Work Voltage	12V DC (7-12V DC)
Work Current	≤100mA
Communication Port	Wiegand 26bit 34bit
	RS232 RS485 (Default 9600 8N 1)
Work Temperature	-40℃～+85℃
Storage Temperature	-60℃～+85℃
Work Humidity	10%～90%RH
Frequency Range	2.400-2.480GHz
Gain	14dBi
Lobe beam width	Horizontal: 55° Vertical: 45°
Polarization	Horizontal/Vertical
VSWR	≤1.5
Front-to-back ratio	≥24dB
Input Impedance	50Ω
Thunder/light Protection	DC grounding
Wind resistance ability	80m/s
Installation	LU code pole
Shell	ABS Engineering materials waterproof shell
Device Weight	1.5kg
Device Dimension	30x30x3cm

2.4G long range card is a high performance cum supper low power consumption active RFID tag. The long-range card working on 2.4GHz frequency. The reader and card can use for personnel automatically identification, vehicle non-stop drive in for resident and commercial building.

2.4G Long Range Card

Work Frequency	2.4GHz-2.5GHz(Default Value)
Work mode	Active
Transmit power	Less than 1mW(0dBm)(Default Value)
Battery	2 unit CR3032 button batteries
Quiescent current	< 1uA
The maximum operating current	<15mA
Transmit time	0.25ms
Reading mode	Read only
Read distance	0-50meter
Life cycle	5 Years(theoretical value)
Operating voltage	3V
Queries time	1s
Collision capability	strong anti-collision capability
Read cards at same time	>200pcs
Working temp.	-25 ~70°C
Storage Temp.	-40 ~85°C
Humidity	Less than 95%
Dimension	86.0mm×54.0mm×5.5mm