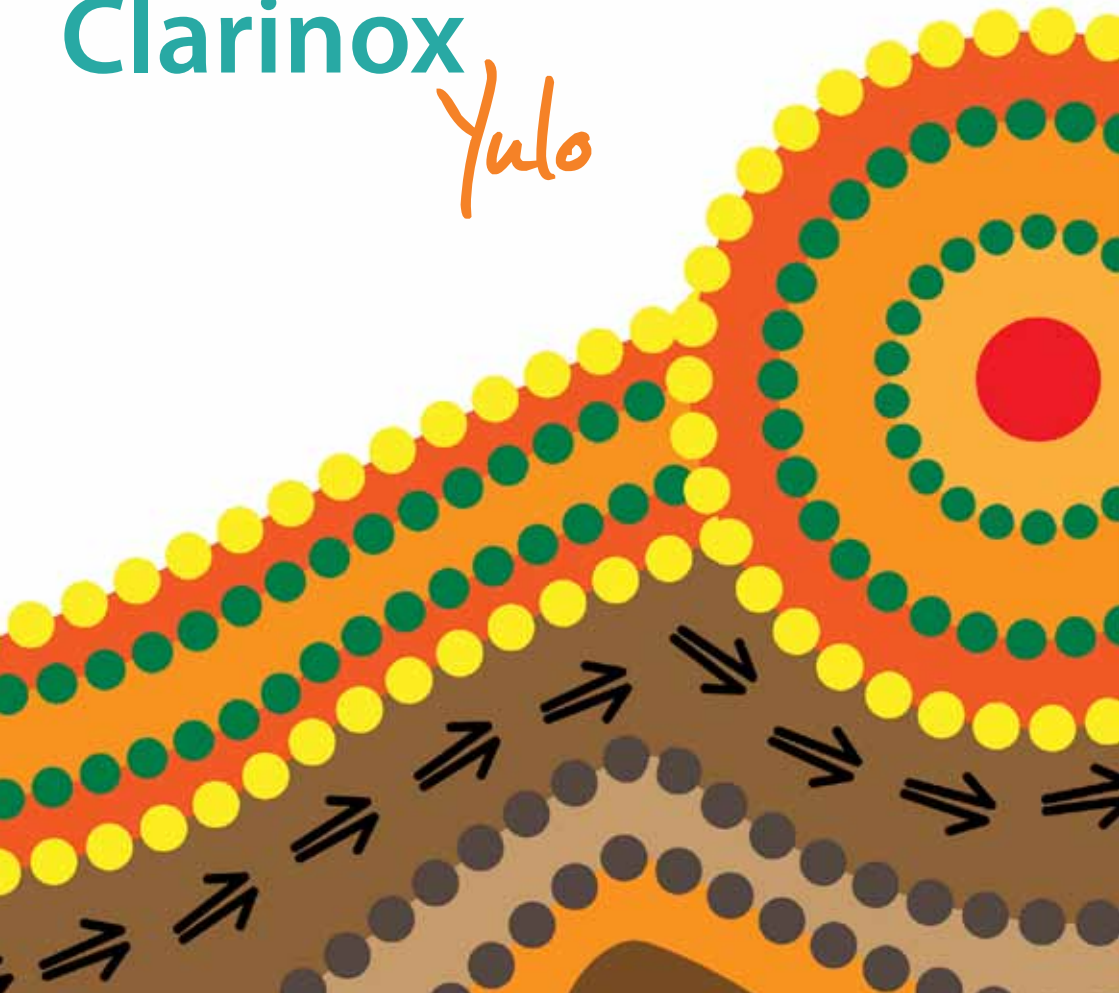


# Clarinox

*Yulo*



Clarinox

RFID readers and tags from  
CLarinox Technologies

# Yulo

Yulo<sup>1</sup> is an active 2.4 GHz Radio Frequency Identification (RFID) tracking solution comprised of a number of reader and tag options. Yulo is a low-cost solution that suits many applications, including access control, automatic identification, inventory and asset tracking.



Features at a glance:

- ⇒ World's smallest active tag
- ⇒ Available fully integrated into Clarinox WayPoint web based interface for asset tracking or location monitoring system or as a standalone component/s
- ⇒ Fully-integrated, low-cost RFID reader and tags  
Can be used to control relay or read external analog/digital data
- ⇒ Ethernet and USB interfaces for easy connection between reader and PC
- ⇒ LED for visual indication of power-on and activity on both Yulo readers and tags

<sup>1</sup> Yulo meaning track from "An ENGLISH-AWABAKAL DICTIONARY" by David Andrew Roberts, University of Newcastle, <http://www.newcastle.edu.au/group/amrhd/awaba/language/dictionary/dic008.html> viewed April 2010

# Tags



- ⇒ 2.4GHz active tag
- ⇒ Nano (pictured) and Micro options
- ⇒ Ethernet and USB options

	Yulo Tag-Nano	Yulo Tag-Micro
Frequency Band	2.4GHz ISM	2.4GHz ISM
Range	10-20m	20-30m indoor, 30-80m outdoor
Max/Min Operating Temp	-30/+70C	-30/+70C
Max/Min Storage Temp	-40/+85C	-40/+85C
IP Rating	Dependent on box option	IP54 (Except SMA version)
Battery Life	1+ years typical (with CR1225)	4+ years typical (with CR2032)
Dimensions	24 x 20 x 6mm (including battery, excluding casing)	58 x 35 x 16mm (in standard casing)
Weight	< 35gr	< 35gr
Data Capability	UID (ISO-15693), 16 character TAG-Info	UID (ISO-15693), 16 character TAG-Info
Box Options	Board only as standard version IP68 moulded version available	Casing as standard Board only or IP54 standard version IP68 version available
Antenna	Chip-on-board as standard, High-Gain Chip and SMA antennas available upon request	
Programmable	via RF link using application software	via RF link using application software
Sensor	None	Hall Effect Temperature
Data Logging	N/A	Yes

# Readers



- ⇒ 2.4GHz active reader, Ethernet and USB options
- ⇒ Requires single +5VDC supply
- ⇒ UDP, TCP or virtual serial interface options

	Yulo USB Reader	Yulo Ethernet
Frequency Band	2.4GHz ISM	2.4GHz ISM
Range	20-30m indoor, 30-80m outdoor	20-30m indoor, 30-80m outdoor
Max/Min Operating Temp	-30/+70C	-30/+70C
Max/Min Storage Temp	-40/+85C	-40/+85C
IP Rating	None	IP65 option
Power	USB or Battery powered	Power adaptor 5V - 140mA
PC Interface	USB 2.0	10/100MBps RJ45
Dimensions	80 x 40 x 20mm	111 x 76 x 27mm
Weight	< 100gr	< 150gr
Box Options	Casing as standard Board only	Casing as standard Board only IP65 with cord grips
Extra interfaces	None	Relay (SPDT, 8A 250VAC, 3A 30V DC)
Communication Protocol	Reader to PC: Serial	Reader to PC: UDP, TCP

## Contact Us

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