

## All-in-one Active Reader (Model: HKRAR-EM02-ETH)

### Empress™ 2.4GHz Active RFID Reader

EM02-ETH is a low cost, easy to install active RFID reader that connects with PC through LAN cable with simple installation procedure. Supporting RSSI, signal strength data could be shown with the use of software program to create more sophisticated applications. EM02-ETH has powerful and accurate reading ability in which more than 100 tags could be read within a second.

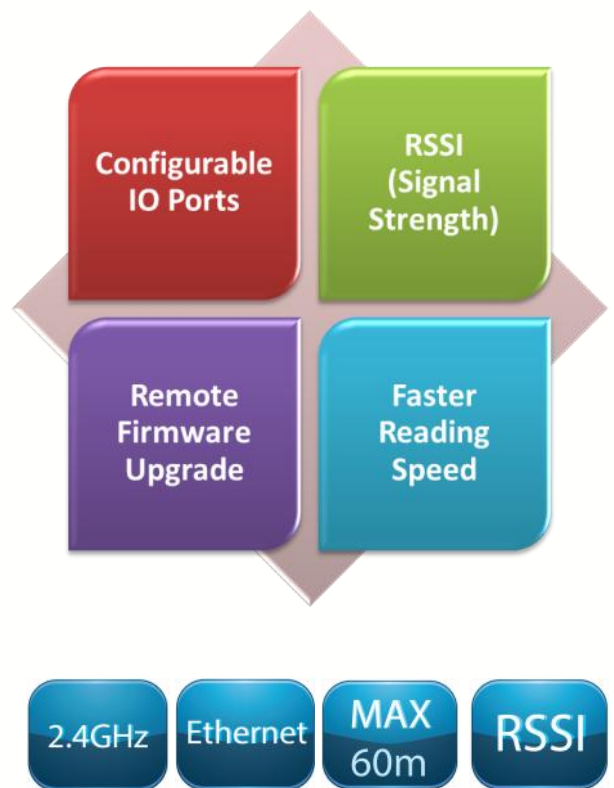
The Empress™ Active RFID Reader family consists of a series of readers covering most network interfaces, including Ethernet through LAN, serial port, Power-Over-Ethernet and Wi-Fi.

**EM02-ETH** connects to PC and network through LAN cable. Such network interface allows secured and stable performance. The setup and installation procedure is simple and users are guided through the configuration program.

**EM02-ETH** supports RSSI providing signal strength data of the tags read. With such data, more sophisticated applications and system design can be achieved. Accompanied with fast and accurate reading, the reader is reliable and efficient.

Three configurable IO ports are also available on the **EM02-ETH** reader. These IO ports can be used for controlling external devices like LED lights and alarms as well as for inputting signal to the reader to perform certain functions.

The plastic casing of **EM02-ETH** makes it light in weight but durable. The panel of the reader is repositioned on the top side for more convenient operation and easier view of the LED signals even when the reader is installed on the wall or ceiling. Remote firmware upgrade would also be supported in the future bringing much convenience for users.



## Specification

Direction	Omni-directional, standard rubber antenna
Maximum Reading Range	30-60m in indoor environment 50-90m with line of sight*
Frequency	2.4 GHz–2.5 GHz ISM
RF Output Power	0dBm
Sensitivity	-90dBm
Power	500mA, 5V, Power adapter
Received Signal Strength Indication (RSSI)	-40dBm to -80dBm with 1dBm resolution
Modulation	GFSK
GPIO	3 Configurable IO Port
Software Interface	.Net Platform, Xtractor™
Data Rate	1 Mbps
Operating Temperature	-40° C to +60° C
Operating Humidity	95% (Non-condensing)
Anti-collision	~ 150 tags shown within 1 sec
Interface	RJ45 Plug, TCP/IP
Dimension	125mm x 108mm x 26mm
Weight	180g

\* Remarks: Reading range is subject to RF environment and RF power of tag. 90m is achieved in open space using HKRAT-NT02 active tags which are placed 1 m above ground.



### Product Certificates:



### Company Awards:



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