



Wide Solution

Le nostre idee sono la Tua forza

RADIO FREQUENCY IDENTIFICATION SYSTEMS

UHF Tags: s-Q8 Series

La famiglia dei Work-Tag® attivi permette un'accurata ed affidabile gestione nelle applicazioni in tempo reale di raccolta dati in radio frequenza quali:

- ✓ Identificazione Automatica
- ✓ Tracciabilità e rintracciabilità
- ✓ Localizzazione di persone e beni
- ✓ Controllo di temperatura

Utilizzando l'avanzata tecnologia di trasmissione radio nella banda UHF, i prodotti della famiglia Work-Tag® attiva trasmettono e ricevono dati a distanze fino a 100 metri. Una caratteristica unica dei nostri Work-Tag® é un sofisticato algoritmo di anti-collisione che permette la comunicazione simultanea di centinaia di tag all'interno della zona di lettura.

I Tag della serie s-Q sono disponibili con espansione di memoria fino a 32 Kb ed un sensore opzionale per il monitoraggio di temperatura.

La presenza del led consente la verifica visuale del collegamento utile in molte applicazioni.

La robustezza di tag attivi s-Q consente di affrontare le proibitive condizioni ambientali delle strutture industriali rendendoli adatti al tracciamento di grandi volumi di beni o persone.

Wide Solution di Simone Bisogno

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Caratteristiche	Benefici
100-meter read/write range	Allows automated identification, tracking and tracing of assets and personnel.
8 KB memory (Option: 32 KB)	Stores user and process information as well as temperature data to provide real-time tracking and tracing. Can be used as an electronic packing slip or as an electronic shop traveller.
UHF operating frequencies	Allows low-power, long-range communication and high data transmission rates with minimal interference due to local conditions.
100-tags/sec. Identification rate	Provides reliable identification of fast-moving objects.
2000-tag simultaneous identification	Provides high-speed data collection to facilitate warehousing and inventory-based applications.
Temperature logging (optional)	Measures and records the temperature of goods at programmable intervals.
LED	Provides visual identification of an addressed tag (pick-to-light).
5-year battery life time	Delivers long time maintenance -free operation, without battery replacement.
On-demand Communication	Eliminates RF flooding by using application-driven read/write operations.
Non-line-of-sight data transmission	Allows tags to be buried while transmitting for improved tracking/locating efficiency.
Low cost	Allows economical tracking of large quantities of assets using high-performance active technology.



Specifiche Tecniche

Performance	
Read rate	Up to 100 tags/s (only Identification Code) Up to 35 tags/s @ 128 bit data reading
Response time	< 150 ms (single tag)
Multiple tag handling	Up to 2,000 tags in the read zone
Communication	
Read range to s-Port III	Up to 100 m (328 ft) @ free air
Write range to s-Port III	Up to 100 m (328 ft) @ free air
Operating Frequency	868 MHz (EC) or 915 MHz (NA) ISM Band
Data rate (download to tag)	115.2 kbits/s
Data rate (upload to reader)	115.2 kbits/s
Maximum transmission power	0.75 mW ERP
Standards / Certification	EN 330 220 (EC), FCC Part 15 (US), Industry Canada
Electrical	
Power source	Lithium battery (not replaceable)
Expected battery life	5 Years @ 600 times 128 bit readings/day
Battery monitoring	Yes
Temperature logging (Option)	
Number of sample Interval	1,024 (i-Q8T) / 13,312 (i-Q32T) User definable in intervals from 1 to 255 minutes
Accuracy	+/- 0.5°C (1°F) over a range of -20°C to +50°C (-4°F to +122°F) +/- 1°C (2°F) in the ranges of -40°C to -20°C (-40°F to -4°F) and +50°C to +70°C (+122°F to +158°F)
Resolution	0.25°C (0.5°F)
Data	
Data retention	>10 years without power
Write cycles	100,000 writes to a tag
Memory size	7,855 byte user definable (i-Q8)
Identification code	48 bit fixed ID



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Environmental	
Operating temperature	-40°C to +70°C (-40°F to +158°F)
Shock	50 G, 3 times DIN IEC 68-2-27
	Multiple drops to concrete from 1 m (3 ft)
Vibration	3 G, 20 sine wave cycles, 5 Hz to 150 Hz, DIN IEC 6 5 G, noise 5 Hz to 1000 Hz, 30 minutes DIN IEC 68- 2-64
Physical	
Dimensions	131 mm x 28 mm x 21 mm (5.2 in. x 1.1 in. x 0.85 in.)
Case Material	Plastic (Luran® S)
Mass	50 grams (1.75 ounces)
Enclosure rating	IP 65 - Protected against dust and low pressure jets of water.

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