



UHF RFID 8-Port Fixed Reader IDTS-IHZ8N (N704)

Model IDTS-IHZ8N · Brand: Identium



An eight-port fixed UHF RFID reader for dock doors, conveyors and production lines, built on the N704 module in the IHZ4 housing. Its 865–868 MHz version reads ISO 18000-6C and 6B tags at over 400 a second and connects over Ethernet, RS-232 or RS-485.

KEY FEATURES

- **N704 third-generation UHF RFID reader chip**
- **8 × SMA ports, > 30 dB isolation, up to 33 dBm, –85 dBm sensitivity**
- 865–868 MHz India (ETSI-band) version; up to 20 m read in the maker's 9 dBi antenna test
- Read rate > 400 tags/s; a 600-tag group identified within 3 s (multi-tag)
- Ethernet 10/100, RS-232 and RS-485; Wiegand on request
- 2 opto-isolated inputs and 2 relay outputs for sensors, lamps and gates

APPLICATIONS

Warehouse dock doors

Conveyor lines

Production lines

Library and file rooms

Attendance and access gates

Apparel stock rooms

Vehicle and asset gates

SPECIFICATIONS

Model	IDTS-IHZ8N
Chip	N704 third-generation UHF RFID reader chip
Protocol	ISO 18000-6C (EPC C1 Gen2), ISO 18000-6B
Frequency	865–868 MHz (India/ETSI-band version); 902–928 MHz (US-band version)
Output power	0–33 dBm (± 1 dB), adjustable in 1 dB steps
Receive sensitivity	–85 dBm
Port isolation	> 30 dB, port to port
Modulation	DSB-ASK, PR-ASK
Decoding	FM0, Miller 2/4/8

Data rate	40 / 160 / 320 / 400 kbps (baseband)
Work mode	Fixed frequency or frequency hopping
Read speed	> 400 tags/s
Multi-tag	600 tags in 3 s (anti-collision)
Read range	Up to 20 m (EPC tags; maker's test with a 9 dBi linear antenna, cable loss < 1 dB, no interference); depends on antenna, tag and site
Write range	Up to 10 m (same test conditions); depends on antenna, tag and site
Ports	8 × SMA antenna ports
Interface	Ethernet 10/100 Mbps (TCP), RS-232 (9,600–460,800 baud, default 115,200), RS-485; Wiegand on request (customisation)
I/O	2 opto-isolated inputs, 2 relay outputs (DC 30 V / 1 A, AC 125 V / 0.75 A)
Functions	RSSI, tag data filtering, dense-reader mode (DRM), antenna-connection detection, temperature/humidity protection, auto-idle power saving
Power input	DC 5–24 V, from a supply of at least 30 W; recommended adapter 12 V / 2 A (100–240 V AC input)
Power consumption	9 W (reader module at +33 dBm)
SDK	SDK packages for several development languages, plus demo software
Housing	Aluminium, anti-shock design
Indicators	Power and status
Dimensions	170 × 120 × 25 mm
Operating temperature	–20 °C to +70 °C
Storage temperature	–40 °C to +85 °C
Humidity	10–95% RH, non-condensing