UHF RFID 16-Port Fixed Reader IDTS-IHZ16N (N704)

Model IDTS-IHZ16N · Brand: Identium

A sixteen-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**
- **16 × 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-IHZ16N
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	16 × 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

Specifications are indicative and may change without notice; confirm details for your order in the quotation.