NORTHERN APEX
EMPOWERING INFORMATION SOLUTIONS

Quality Base Unit

RFID Reader—Edge Device, All-In-One Unit



The Quality Base Unit is a part of our Constellation Series of readers, but it is much more than just a reader; the Quality Base Unit is a true edge device. A stand-alone reader is subject to “missing” reads/process steps due to latency issues feeding the information back to the server. Based on a .Net micro controller platform, the Quality Base Unit is able to handle integrated process steps without continuous communication with the server.

The ability to store data and feed back to the server during down intervals, allows theQuality Base Unit to keep production moving, while accurately keeping track of the product.

The Quality Base Unit also includes a power supply, fusing protection, and an optically insulated and noise immune Digital I/O controller.

Technical Specifications

Operating Frequency:
UHF band, 902 – 928 MHz
Gen2 EPC compliant

Communication and Device Interface:
Digital I/O Input: 16 points, 24Vdc, sink/source
Output: 8 points, 12 –24 DC expansion capabilities available

Antenna connections:
Single Antenna Coax “Patch Antenna” Multiple Antenna Coax Optional

Power Supply:
110/240 Vdrop for a +24VDC regulated internal supply

Enclosure Types:
Nema rated – Painted Steel (standard) - 304/316

Size/Weight:
16” wide x 20” high x 6” deep
40 pounds (38.5 kg) with enclosure

Features

- Stationary mounted or a portable unit that will network with most computers, PLC’s or laptop devices using a Serial link and/or Ethernet connectivity.
- Ideally suited for setting up a 900MHz RFID enabled facility at product/tag initialization stations, temporary inspection or demonstration stations, fixed conveyor mounted applications and for use in final packaging where verification in production, packaging or distribution environments and long-range 900MHz read distance is desirable.
- Combine with the established GALAXY software products to provide item level or multi-pack applications, tracking, and rapid project implementation

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