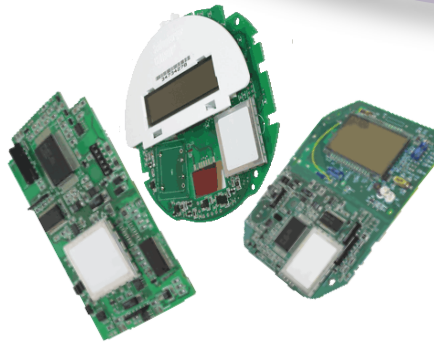


MeshReader®

Mesh underglass reading

The Trilliant logo features the word "Trilliant" in a blue, sans-serif font. Above the letters "i" and "l" are three curved lines in green, blue, and orange, suggesting a stylized globe or signal waves.

Affordable Advance Metering for Residential Customers



Trilliant MeshReader products provide affordable and reliable smart meter automation using digital wireless communications based on the latest wireless mesh communication standard, IEEE 802.15.4 and IPV6 protocols. Complex under glass functionality for metering, demand response and reliability response are supported through our unique implementation of these standards.

The MeshReader is supported by our family of digital cellular networks (CDMA/1xRTT, GSM/GPRS, iDEN) via meter-based network access point, the MeshGate. This makes for a totally affordable, wireless solution. Telephone access points are also available for selective implementation.

With Trilliant MeshReaders and MeshGate based on a communications technology available worldwide, you are *always on, always connected anywhere!*

Benefits and Features of the Trilliant MeshReader

- Full implementation of the ANSI meter data tables with over 1 year of hourly profile.
- Cost-effective meter communications for load profile, register, outage, tamper and diagnostics.
- Extremely fast communications over long distances via adaptable power and multi-hop communications.
- Very low operating costs by sharing public and private network capacity over a community of meter devices.
- Can read and transmit data for gas, water and electricity.
- Real-time and time scheduled communications.
- Easily installed.
- Event reporting for outages and thresholds.
- International wireless coverage via LAN standards compliance and supported wide area networks.
- Secure communications and data transfers.
- Wireless hand held support for installation, meter reading, maintenance and operations.
- Devices are configurable, programmable and readable via the wireless network.
- Interoperable with other IEEE 802.15.4 devices including smart thermostats or control devices.

The "BestPath" establishes the best way to forward information from other meters through our access points for delivery to internal systems.

The mesh network reconfigures and restores itself under environmental and outage conditions to ensure reliability.

The MeshReader has local storage to avoid information loss.

The MeshReader conforms with ANSI and IEEE standards for meter communications.

SPECIFICATIONS

Supply

- Use an internal power supply
- Power Consumption: 1.5 watt
- Battery: Does NOT use batteries

Communications

- Full Function IEEE 802.15.4 device
- Data rate: 250 KBPS
- Communications protocol: ANSI C12.19, C12.22
IEEE 802.15.4
- Receiver sensitivity: -91 dBn
- Transmit power: +20 dBn
- Security: DES or triple DESede

Local Query

- NCZL90H Hand held
- Mobile meter reading
- Installation programming
- GPS positioning

Environmental

- Temperature: -30°C ~ 80°C (-22°F ~ 176°F)
- Humidity: 0 ~ 95%

Approvals

- FCC - Pending
- IC: pending

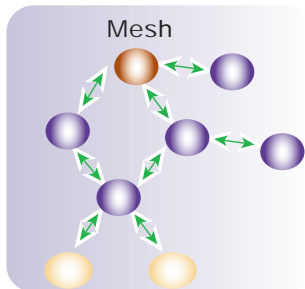
Smart Metering Features




- Always on device
- ANSI C12.18 table storage
- Programmable event conditions
- ANSI C12.22 provides
 - o Meter data encryption
 - o Sessionless communications
 - o Meter data addressing

Systems Supported

- SerViewCom - data communications and management system
- Z-Term Trilliant Configuration Software

Product #: NCZR101



-  Access Point
(Always On Electric Meter or Poletop MeshGate)
-  Full Function Device
(Always On Electric SMD MeshReader)
-  Reduced Function Device
(Lower Power Gas/Water SMD MeshReader)

www.trilliantnetworks.com

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VT-0117B-1.1



**Affordable Advance
Metering for
Residential Customers**

*Based on the latest wireless
mesh communication standard
IEEE 802.15.4 and
IPV6 protocols.*

*The NCZR101 is fully compliant
with ANSI and IEEE
and is supported by our family
of digital cellular networks
(CDMA/1xRTT, GSM/GPRS, iDEN)
via meter-based network
access point, the MeshGate.*

Plug n Play Advanced Meter Communications