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WG 200 Barcode Reader



The WG200 Barcode reader is designed to read 1D/2D barcodes from mobile phones, tablets, wearables and paper in any orientation.

Its small footprint, low profile slot-in design enables easy integration into kiosks, ticket machines, turnstiles and access gates.

Rugged water-resistant construction with no moving parts enables it to withstand years of indoor and outdoor public access use.

An option for Power over Ethernet (PoE) allows installation without a dedicated power supply and at a distance of up to 100m from the host PC.

Its optimised imaging ensures read reliability and high-speed performance; capturing and decoding all popular linear, PDF417 and 2D symbologies.

STANDARD FEATURES

- Front face sealed for integration into indoor or outdoor kiosks, podiums and gates
- Intuitive operation with LED user feedback
- Low profile design: Only 36.9mm high
- Optimised focal distance design improves read performance for all paper and electronic media
- Option for Power over Ethernet (PoE)
- Reads 2D, PDF417 and linear symbologies
- Single cable connection to host computer
- UltraGlass option for extreme environments
- USB (HID, serial or keyboard), RS232, RS485, Ethernet interface options

APPLICATION

- Access control gates and turnstiles for stadia, building access and transportation
- Car park ticket machines and automatic barriers
- Casino and TITO gaming machines
- Retail voucher redemption and loyalty cards
- Self-service kiosks and ticket vending machines

WG210 Barcode & RFID/NFC Reader

The WG210 combines all of the features and capability of the WG200 but adds NFC/RFID to offer an especially intuitive and quick interface for data reading and writing. WG210 works with all popular contactless cards – including Mifare® (Classic®, Ultralight®, DESfire®, Plus) and Calypso®.

NFC (Near Field Communication)

NFC is a standard form of communication between an NFC reader and NFC supported media like smartcards, tags, smart phones and wearables. NFC technology has gained more popularity as it is increasingly used in ID documents and mobile devices. The distance of communication is usually a few centimetres so that the users are aware of their contactless media communicating with the reader.

STANDARD FEATURES

- Front face sealed for integration into indoor or outdoor kiosks, podiums and gates
- Intuitive operation with LED user feedback
- ISO14443 Type A/B
- Low profile design: Only 36.9mm (51.2mm with PoE/SAM housing)
- Optimised focal distance design improves read performance for all paper and electronic media
- Option for Power over Ethernet (PoE)
- Reads 2D, PDF417 and linear barcode symbologies
- Reads barcodes and NFC devices from a single point of presentation
- Single cable connection to host computer
- UltraGlass option for extreme environments
- USB (HID, serial or keyboard), RS232, RS485, Ethernet interface options

APPLICATIONS

- Access control gates and turnstiles for stadia, building access and transportation
- Car park ticket machines and automatic barriers
- Casino and TITO gaming machines
- Retail voucher redemption and loyalty cards
- Self-service kiosks and ticket vending machines

It is EMV Level 2 capable and with PCI and SRED compliance for contactless payments using VISA, MasterCard, AMEX and Discover schemes.

EMV Levels 1 & 2

EMV contactless Level 1 certification ensures that the device meets the lower level electromagnetic and communication protocol requirements. It includes operating distance tests where reference cards are placed at a set of predefined positions in proximity to the device's antenna. It further covers analogue tests on the used frequency and digital tests on the low-level communication protocol, for example.

EMV contactless Level 2 certification is concerned with the validation of the software that implements the payment functionality and that runs on the Level 1 certified device. This software is referred to as a payment kernel. The contactless payment brands to be supported (e.g. MasterCard/Maestro Contactless, VISA payWave or American Express contactless) determine which of the payment kernels are to be implemented.



STANDARD FEATURES

- EMV Level 2 Certification (VISA, MasterCard, AMEX, Discover)
- PCI SRED - V5.0

APPLICATIONS

- Casino and TITO gaming machines
- Financial and other self-service kiosks
- Retail POS terminals
- Ticket validation for public transport, car parking, stadia and events



PRODUCT OPTIONS

Flush Bezel

The flush bezel option means that when installed, the reader is completely flush with the surface around it, allowing a smooth and fluid movement across the reader regardless of the media. Front face sealed (IP67) for integration into indoor or outdoor kiosks, ticket machines, podiums, turnstiles and gates.



Raised Bezel

A raised bezel can be specified providing a 2mm raised lip above the glass. Front face sealed (IP67) for integration into indoor or outdoor kiosks, ticket machines, podiums, turnstiles and gates, the raised lip can assist by directing users to the active area of the reader.



UltraGlass

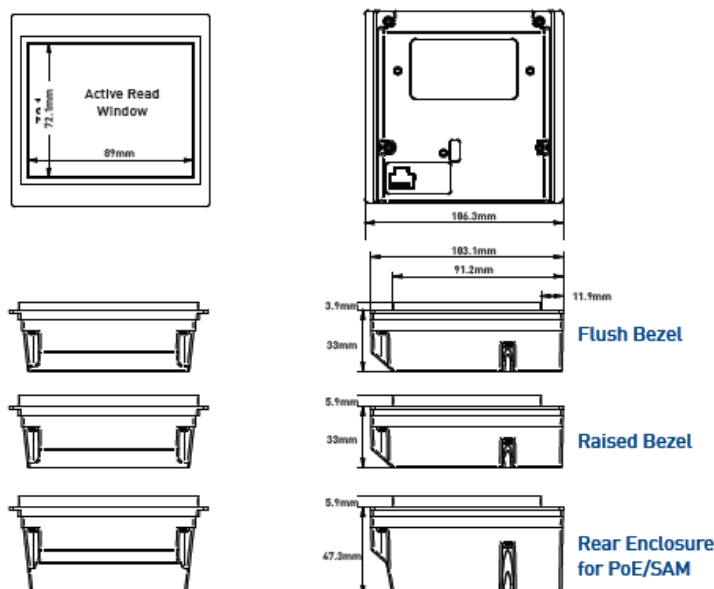
For environments with highly abrasive elements such as sand and grit, an innovative UltraGlass option is available that delivers significantly enhanced scratch-resistance. This upgrade helps alleviate the possibility of scratching which may, in severe circumstances, affect the barcode reading performance. This option also allows the use of tools such as metal scrapers to remove paints or adhesives from the window during maintenance or repair.



SAM (Secure Access Modules)

The option of installing up to four SAM modules within the device is available





SPECIFICATIONS

Barcode symbologies read

- 2D: IATA resolution 792, PDF417, Aztec, DataMatrix and QR codes
- Linear: EAN, UPC, Code 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Code 39, Code 128
- Media types read: Smartphone/tablet/smartwatch displays & paper tickets

Contactless reader

- Mifare Ultralight (UL-C, UL-EV1, UL-Nano), Mifare DESFire, Mifare Plus, Mifare Classic, Mifare SmartMX, Calypso, FeliCa
- Operating distance: 20 mm
- Operating frequency: 13.56 MHz
- Supported media: ISO14443 type A and B cards (Java cards); max baud 424K (extendable to 848K)

Contactless payments (Available Q2 2018)

- EMV Level 2 Certification (VISA, MasterCard, AMEX, Discover*)
- PCI SRED - V5.0

Interface

- USB composite device, with:
- HID interface for barcode reading
- CCID PC/SC interface for NFC
- Serial device, with barcode, NFC reader as separate devices

SPECIFICATIONS

Mechanical/electrical

- Dimensions: (LxWxH) 103.1 x 106.3 x 36.9 mm (Flush bezel & without SAM option)
- Weight: 250g (Without SAM option)
- Power: ATR200 (USB): Via USB
All other variants: Via ext. 5v PSU
- Body: Black ABS
- Glass: 4mm Toughened White Soda Lime; BS EN60068-2-75 & IEC 62262:2002, rated to 3.5J impact
- MTBF: 250,000 hours

Environmental

- Temperature: Operating -20°C to +60°C Storage -30°C to +80°C
- Humidity: 95% RH, non-condensing

Approvals

- EMC Approvals:
- FCC 47CFR Part 15 Subpart B Class A, EN 55032 Class B, EN 55024
- Radio: (NFC Version Only)
- FCC Part 15 Subpart C, CE: EN 301 489-1 v1.8.1 (2008-04), CE: EN 302 291-1 v1.1.1 (2005-07)

Safety:

- IEC 62471: 2006 EN 60950-1:2006+A12:2011
- Ingress:
- Front Face ONLY - IP67 certified to BS EN 60529:1992