

COR

Contactless payment solutions Quick and safe

Rapid processing of small amounts at vending machines

Quick – quicker – contactless!

With the inexpensive combination of a COR (Contactless Only Reader) and an OPM-C60, you can effect payment at a vending machine more quickly and conveniently. Contactless payment – a step into the future of payment.

Ideal for highly frequented locations

Contactless payment is especially suitable for use at highly frequented vending machines in branches where there is hectic activity and time pressure. Simply hold the contactless card briefly in front of the reader to effect payment. An optical and an acoustic signal confirm the payment process. No additional authorisation such as entering a PIN or a signature is required for small amounts. Payment takes just a few seconds, significantly boosting efficiency at the Point of Sale.

Higher amounts can be processed with the corresponding authorisation by combining the COR with the OPP-C60.

The contactless readers are certified for the payment systems *PayPass™*, *girogo* and, in combination with the *OPP-C60*, *payWave™*. Contact-based payment via *GeldKarte* is also possible with the COR-B20 variant.

The contactless readers are also ideally equipped for the future: payment with NFC-enabled phones is possible.



- **Quick and convenient payment process thanks to contactless technology**
- **Convenient and safe for highly frequented Points-of-Sales (fast-food restaurants, kiosks, cinemas, chemist's shops, etc.) and in extremely busy areas (airport, railway stations)**
- **Widely varying applications: parking ticket-, coffee-, ticket-, fuel- and vending machines, kiosk systems**
- **Optical and acoustic signals confirm the payment process**



Technical data

COR

COR-A10, COR-A20, COR-B20

Card readers

Contactless readers in accordance with ISO/IEC 14443 A/B, MIFARE, ISO/IEC 18092 – NFC (Reader/Writer-Mode, P2P Passive, Initiator Mode in accordance with NFCIP-1 only), Sony FeliCa™ (Basic for NFC forum tags type 3) for a wide range of payment procedures, e.g. girogo, MasterCard PayPass™ 2.0 and M/Chip, VISA payWave™ MSD and qVSDC in combination with OPP-C60

Status display

4 LEDs – multi colour, e.g. for EVA-CVS, compatible to PayPass™ and payWave™

Graphic LCD

(COR-A20 and COR-B20 only)
256 x 64 Pixel, FSTN,
display size 50 x 12.5mm
white LED-backlighting
with 2-stage brightness control

Dimensions

External (L x B x H) 85 x 71 x 12mm,
panel (L x B) 73 x 53mm

Impact resistance

Vandal-proof in accordance with IK07 when mounted on a metal terminal front

Ambient conditions

Operating temperature: -25° bis 70°C
5%...90% relative humidity,
non-condensing
Storage temperatures: -30°C bis 80°C

RFID

Illuminated contactless symbol
Universal RFID Controller

Licensing, approvals

EMVCo L1 contactless
and COR-B20 EMV-L1 contact-based,
MasterCard PayPass™, payWave™,
CE, RoHS, WEEE
COR-Axx with PCI 3.x certification

OPM

OPM-C60

Processor

32-Bit ARM11 microprocessor,
clock rate 533MHz

Operating system

Embedded Linux

RAM

385MB (256MB Flash,
128MB DDR2 RAM, 1MB SRAM)

Dimensions

Dimensions (L x B x H) 141 x 91 x 32mm
attachment via mounting holes or
optional top-hat rail holder

Power supply

9V – 25V, depending on application via
OPM-C60 or OPP-C60
Low power operating mode –
power consumption ~ 8mA in sleep mode

Acoustic signal transducer

Programmable
(signal duration / signal frequency)

Communication/ interfaces

ISDN (EDSS1)
LAN
via RS 232/LAN GSM / GPRS possible
Two USB ports
Cash register interface
ZVT cash register protocol
O.P.I. protocol
MDB protocol
others on request

Ambient conditions

Operating temperature: -20° bis 70°C
Storage temperature: -25°C bis 70°C /
5%...90% relative humidity,
non-condensing

Licensing, approvals

EMVCo L1 contactless
and COR-B20 EMV-L1 contact-based,
Geldkarte, girogo, MasterCard PayPass™,
CE, RoHS, WEEE
COR-Axx with PCI 3.x certification

Product variants

COR



COR-A10
Contactless reader
with 4 LEDs



COR-A20
Contactless reader with 4 LEDs
and additional text display



COR-B20
Contactless reader with 4 LEDs,
text display and additional
chip card reader



OPM-C60
Controller for use of contactless readers of types
COR-A10, COR-A20 und COR-B20



OPP-C60
Multifunctional payment terminal module
in various designs

CCV Deutschland is an innovative and future-oriented provider of electronic transaction processing solutions approved to international and national standards such as PCI, EMC, DK and gematik.

With its wide range of hardware and the server-based solution acCEPT, CCV can in particular guarantee traders (retail trade, chain stores as well as major retailers) cost savings and greater efficiency at the point of sale. For integrators in the cash register and mineral oil sector, we offer state-of-the-art in-house developments for indoor and outdoor applications. To ensure this, we maintain close contact with network providers, commerce, security committees and experts from the industry. Under the brand name Celectronic, CCV eHealth develops one of the best selling terminal product ranges in Germany.

Strength in unity: CCV Deutschland is part of the CCV Group, which is based in Arnheim (NL) and has over 500,000 terminals in operation in the Benelux countries, Germany and Switzerland. As one of the world's largest

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