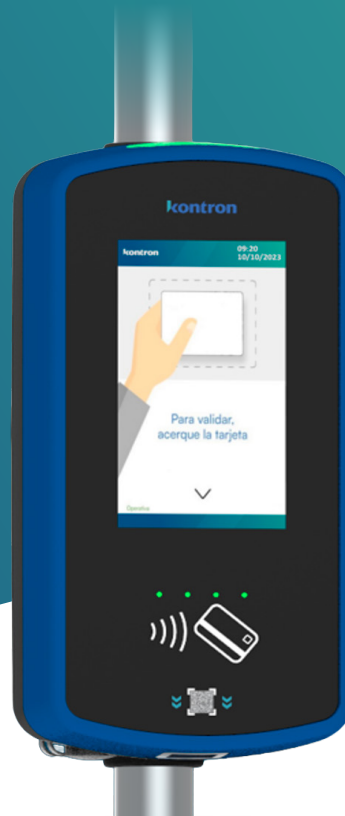
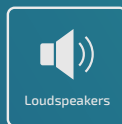


Validation and Selling Terminal TVV-100

Ticketing Solutions Ticket Validator and Selling Terminal

Contactless Card and QR Code validator for railway and Metro Stations



**EMV
(NFC Reader
Interface)**

**QR/Barcode
Scanner
Interface**

**RGB LED
Guiding
Lighting
System**

**7" User
Interface
Displays**

Ticketing Solutions

Ticket Validator and Selling Terminal

The most relevant features of the TVV-100 are the following:

- › Modular and compact device suitable for installation in the limited space of a bus and able to withstand the vibrations associated with onboard equipment.
- › Easy maintenance and simple component replacement.
- › Powerful processing engine that provides fast transaction times.
- › Includes a processor: NXP i.MX 8M PLUS 1.6 GHz Quad Cortex®-A53-ka-Ro electronics-TX8P main CPU.
- › Contactless read/write unit ISO14443 Type A/B.
- › Maximum security for data transmission during cancellation, operation, and configuration, through the incorporation of SAM modules.
- › Possibility of autonomous operation, with high data management and storage capacity.
- › Downloadable firmware and operating parameters, and self-diagnostic functions.
- › QR/Barcode scanner interface
- › RGB LED guiding lighting system
- › 7" user interface displays
- › Integrated audio system
- › Drivers TFT display (interface HDMI) 8" or 10"
- › External Printer for tickets issuing

The driver's console validator incorporates a single reader for TSC technology transport cards and EMV bank cards.

The proposed reader complies with international EMV Level 1 and Level 2 security requirements, as well as PCI PTS 6.X, and is currently the only reader certified by Redsys for using bank cards as identification for public transport (Transit model).

This device supports Desfire, Mifare and Calypso contactless cards and NFC technology.



Key Features

Supported Payment Methods

- › Contactless Smart Card Reader
- › 1D / 2D Barcode Reader
- › Contactless payment

Connectivity

- › Ethernet 10/100Mbps
- › 2 x RS232 + 1x RS422/485 for External Printer
- › 2 x USB ports
- › GNSS & wireless communications (optional)
- › HDMI output for Dual View (optional for External TFT display) 8" or 10"

Power

- › Input 9 to 36 VDC

Environmental Characteristics

- › Operation temp.: -20 °C to +60 °C
- › Storage temperature: -40 °C to +70 °C
- › Humidity (RH) from 5% to 95 % (non-condensing)

User Interface

- › 7" Touch PCAP TFT
- › RGB LEDs
- › Speaker
- › 8-10" drivers display

Certifications

- › Ingress Protection: IP54
- › Impact Protection : IK07

Ticketing Solutions

Ticket Validator and Selling Terminal

Technical Information

Dimension	337 x 150 x 139 mm (Only Validator)
Weight	3kg (Only Validator)
Interface	Ethernet /WiFi
Connector	Shielded RJ45 connector (external interface) DC input power terminals Vibration-resistant connectors
Input Voltage	(9 - 36) VDC
Power	(0,67 - 2,7) A (<1 A @ 24 VDC)
Processor	1.6 GHz Quad ARM® Cortex®-A53 based NXP i.MX 8M Plus
Ports	1x FastE LAN 1x GPIO 2x USB 2.0 1x RS-232 1x RS-232/422/485 1x HDMI 1x I2C
PCI Express	1x mPCIe
USB	2x 2.0
Wireless connectivity	1x Wifi 1x GNSS 1x Bluetooth
Serial	1x RS-232 1x RS-485/422
Power Consumption	(0,67 - 2,7) A (<1 A @ 24 VDC)
Cooling	CPU with Finned aluminum heat sink
Operating System	Linux
Ethernet	Fast Ethernet
Mountin	Bar-mounted
Operating Temperature	(-20 - 70) °C
WIFI	802.11 a/b/g/n/ac (Dual Band 2.4/5 GHz)

Ticketing Solutions

Ticket Validator and Selling Terminal

About Kontron

Kontron AG (www.kontron.com, ISIN AT0000A0E9W5, WKN A0X9EJ, KTN) is a leading IoT technology company. For more than 20 years, Kontron has been supporting companies from a wide range of industries to achieve their business goals with intelligent solutions. From automated industrial operations, smarter and safer transport to advanced communications, connectivity, medical, and energy solutions, the company delivers technologies that add value for its customers.

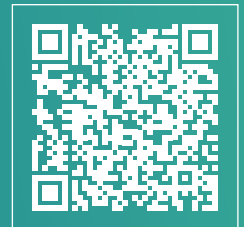
Kontron has around 7,000 employees in over 20 countries worldwide and is listed on the SDAX® and TecDAX® of the German Stock Exchange.

Kontron Public Transport Arce S.A.

Plaza Euskadi 27 9th floor
48009 Bilbao
Spain

kpta-es-sales@kontron.com
www.kontron.com

Vía de las Dos Castillas, 33, tica
Edificio 7 – 2 planta
28224 Pozuelo de Alarcón
(Madrid) Spain



More
Information

© Copyright 2026 Kontron. All rights reserved.

All data is for information purposes only and not guaranteed for legal purposes. Information has been carefully checked and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Kontron and the Kontron logo and all other trademarks or registered trademarks are the property of their respective owners and are recognized. Specifications are subject to change without notice.

KTN25115-TR Datenblatt-TVV-100 / Version: 1. Juni 2026, 4:59 PM