DIVA3 PLATFORM · CASHLESS

LeX3 multi-standard vending reader

The LeX3 is the cashless reader of the new DIVA3 platform: a DIVA3 controller with integrated LEGIC read/write electronics (SM-6300i) and a separate antenna Dragon. It replaces the LeX2 – with a modern processor architecture, USB-C, Ethernet 10/100 and optional 4G, with the full feature set of the proven DIVA firmware.

LEGIC prime + advant

MIFARE DESFire · Classic · Plus · Ultralight | LEGIC Connect

NFC | BLE | TWINT



13.56 MHz	18–42 VDC	MDB·EXE·CCI·BDV	LAN·4G·USB-C	180×90×50
LEGIC SM-6300i EAL5+ Secure Element	powered via machine connector s1.4	automatic cable detection	nube cloud remote management	mm, approx. 300 g operation 0 … +70 °C

Applications

- Cashless reader for food and beverage vending machines, coffee machines, micromarkets and cash registers
- Payment with employee/student badges from access control and time recording systems (multi-application)
- Controller or converter for networking third-party readers, coin changers, credit card terminals, Tapsy and TWINT
- Telemetry box for audit (EVA-DTS) and remote management via LAN or 4G
- Special applications: Compact Loader, Coffee Corner, laundry, turnstiles, timer applications

Benefits

- Parallel processing of all physical media (13.56 MHz) and virtual transponders **in one reader**
- Compatible with open standards such as LEGIC CASH and Open Cash File (CSSA) and many proprietary data mappings
- Modern platform: 1 GHz Cortex-M7, 2 × USB-C, Ethernet, internal microSD – investment protection for many years
- Compatible with the DIVA2 family: antenna Dragon, machine cables s1.4 (automatic cable detection), options, extensions
- Connection to the nube cloud: remote SW updates, configuration, monitoring and alarms; TIV back office
- Future-proof: LEGIC advant and DESFire, EAL5+ secure element, remote update of the LEGIC OS
- Built in as standard: TWINT (CH) QR code open-loop payment
- In-field segmentation of transponders (LeX3i)

Firmware functions

- Service/free vend mode, subsidies, bonus, 4 price lists + cash, 100 selections, age verification, VAT rates
- Debit and/or credit operation in online or offline mode, mixed vend across all payment systems
- Machine interfaces: MDB slave cashless (level 1–3), Executive, BDV, CCI, parallel; 2 vending machines on one LeX3
- Third-party payment systems: MDB master (coin changer, bill validator, 2 card readers), credit card terminals, QR scanners, ID readers
- EVA-DTS statistics readable via cable (s7.3), USB-C, USB stick, NFC/BLE, IrDA eye, LAN or 4G
- Single transactions in XML format on internal microSD, collected via USB stick or cloud
- Traffic light control on the antenna (red-yellow-green-blue) and buzzer; languages DE, EN, FR, IT, ES, CA

Details according to the DIVA manual and the feature list of the current firmware.

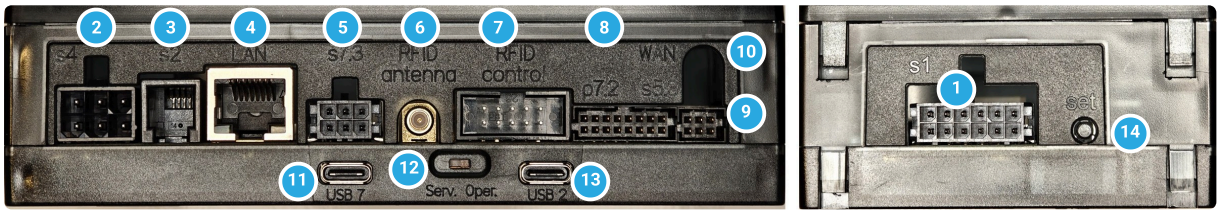
Tools – what else do I need?

- **PC tool DHT** via USB-C or s7.3 for configuration and SW update
- **USB stick** (FAT32) and **USB-C cable**
- **Commissioning card** or LEGIC XAM master token for segmentation
- **nube account** for cloud functions
- optional **IrDA eye** for older handhelds
- **Firmware download:** help.hugwi.ch

Technical data

Dimensions / weight	180 × 90 × 50 mm (L × W × H), plastic housing; weight approx. 300 g
Temperature range	Operation 0 … +70 °C, storage −40 … +85 °C, non-condensing
Power supply	18 … 42 VDC (nominal 24 VDC, SELV) via s1.4; current consumption typ. 300 mA @ 24 VDC
Supply for ext. devices	USB-C 0.5 A each; 5 V and 24 V on s2, s5.3, s7.3, p7.2; MDB supply on s4
Processor / memory	NXP i.MX RT1170 (Cortex-M7, 1 GHz), 16 MB code flash, 1 MB data flash, 4 Mbit NVRAM, microSD (opt.)
RFID	LEGIC SM-6300i (LeX3: SM-6300), 13.56 MHz, reading distance 10 … 50 mm, EAL5+ secure element
Controls / RTC	Slide switch Serv./Oper. (commissioning), set button, LEDs, buzzer; RTC with lithium cell (10 years)
Connectivity	LAN 10/100, 4G LTE with extension E207 (EU / LATAM), BLE + NFC via antenna, USB 2.0
Standards	MDB/ICP 4.2, EVA-DTS / DDCMP, Executive, BDV, CCI; ISO 14443 A/B, ISO 15693; IEEE 802.3; USB Type-C
Conformity	CE – EMC EN 55032 / EN 55035, RoHS

Connectors and interfaces



1	**s1.4**	Machine MDB / EXE / CCI / BDV + power	
2	**s4**	MDB master: coin changer, bill validator, card reader	
3	**s2**	RS232 + 24 V: printer, display, scanner, cash register	
4	**LAN**	Ethernet 10/100BASE-T, RJ45	
5	**s7.3**	RS232 configuration, DDCMP, handheld	
6	**RFID ant.**	Antenna Dragon: RF	
7	**RFID ctrl.**	Antenna Dragon: traffic light + serial	
8	**p7.2**	I/O: 1 opto IN, 2 SSR OUT, RS232, IrDA eye	
9	**s5.3**	RS232 payment system (e.g. EFT), 5 V / 24 V	
10	**WAN**	4G antenna (only with extension E207)	
11	**USB 7**	USB-C OTG: laptop, configuration, SW update	
12	**Serv./Oper.**	Slide switch service / operation (commissioning)	
13	**USB 2**	USB-C host: USB stick, QR scanner	
14	**set**	Button (reset)	

Pin assignments and connector types: see Specification Note SN172.

Ordering information

LeX3i (SM-6300i)		LeX3i 4G (SM-6300i)		LeX3 4G (SM-6300, ES)	
D4.05.000.82	LeX3i (reader only)	D4.05.000.84	LeX3i 4G (reader only)	D4.05.000.87	LeX3 4G (reader only)
D4.05.000.15	LeX3i Set BDV	D4.05.000.56	LeX3i 4G Set BDV	D4.05.000.60	LeX3 4G Set MDB
D4.05.000.16	LeX3i Set MDB	D4.05.000.57	LeX3i 4G Set MDB	D4.05.000.61	LeX3 4G Set EXE
D4.05.000.17	LeX3i Set EXE	D4.05.000.58	LeX3i 4G Set EXE	D4.05.000.64	LeX3 4G Set CCI
D4.05.000.18	LeX3i Set CCI	D4.05.000.59	LeX3i 4G Set CCI		



Set contents
LeX3 reader · antenna Dragon RFID/BLE with bracket (HW.52.000.32) · machine cable s1.4 depending on set (MDB, EXE, CCI, BDV) · Velcro tape set. 4G sets additionally with extension E207 and GSM antenna.

Accessories

Antennas, expansions, peripherals		Machine cables s1.4 (12-pin), mounting	
HW.52.000.32	Antenna Dragon RFID/BLE with bracket	D3.01.003.08	Machine cable MDB
HW.52.000.33	Antenna Dragon RFID/BLE without bracket	D3.01.003.87	Machine cable 2× MDB
D2.69.000.06	Extension207 Set GSM 4G (EU)	D3.01.003.05	Machine cable Executive
D2.63.000.01	Option215 set (I/O expansion)	D3.01.003.11	Machine cable CCI
D2.42.000.01	Option206 RS232 set	D3.01.003.07	Machine cable BDV
HW.14.000.01	DIVA external serial display (on s2)	D2.01.004.15	Self-adhesive Velcro tape set

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