PARKING CONTROLLER

MODEL: LCC550

RSE650

CONTROL CENTER

POE LAN

ETH LAN

RS232

48 VDC

POWER SUPPLY
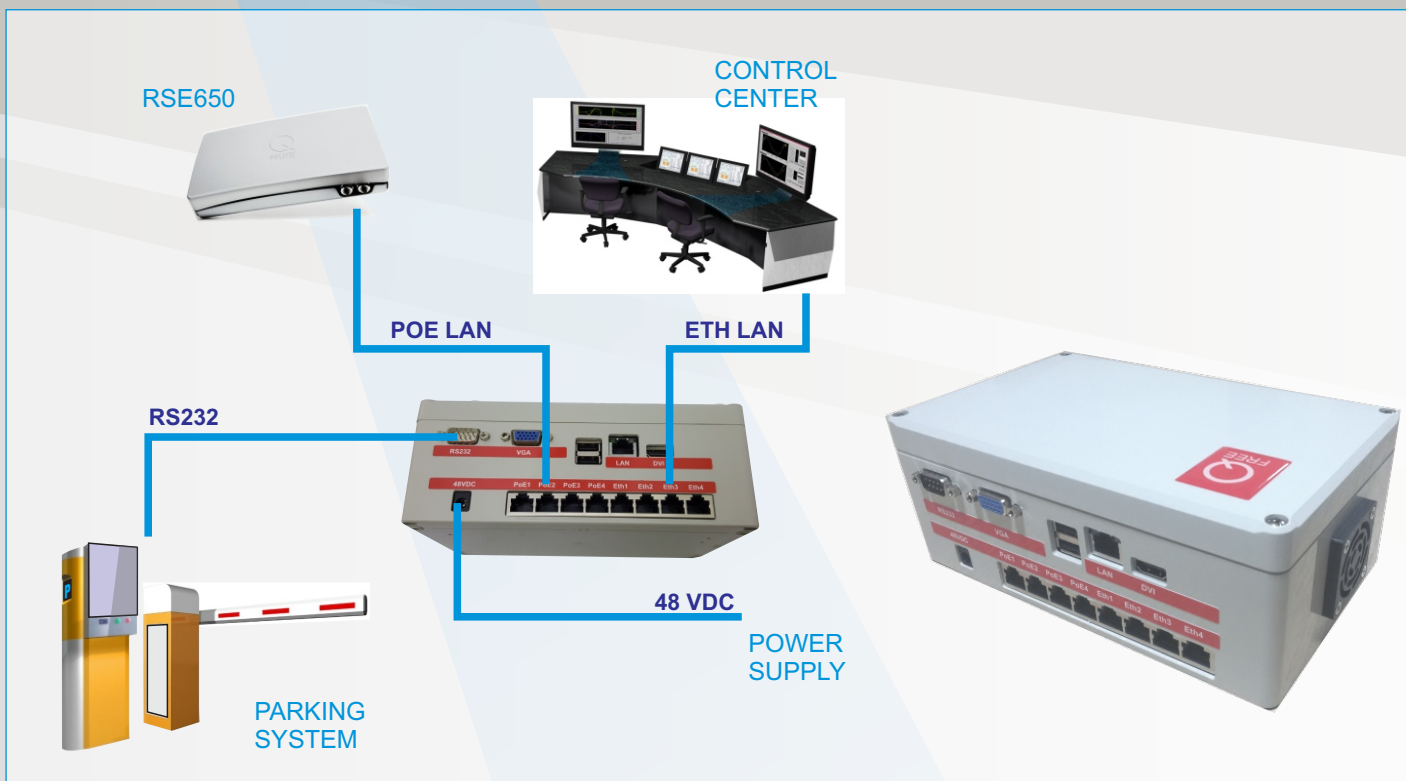
PARKING SYSTEM

OVERVIEW

The Q-Free LCC550 universal parking system controller is one of the most advanced of a kind at the market. It is designed for automatic connecting to parking systems (machines and ramps) with up-to-date parking payment systems such as systems based on DSRC microwave tags, GSM/GPRS systems, proximity cards, Automatic License Plate Recognition (ALPR), etc.

The Q-Free LCC550 supports several different applications such as:
- Car Park management,
- Taxi Park management,
- Vehicle access management.

LCC550 can be connected directly to the parking systems of different manufacturers (Skidata, Schiedt & Bachmann and similar) over RS232 communication line or Ethernet LAN switch.

LCC550 is directly related to the Q-Free RSE650 DSRC transceiver via standard Ethernet PoE lines, so that parking controller provides power and the data transfer.

The LCC550 provides an opportunity to be connected as interface to various external devices, such as:

- Proximity card readers,
- IC & magnetic card readers,
- ALPR cameras,
- PCI 3G/GPRS modems,
- Coin selectors,
- Loop detectors,
- VMS (Variable message signs).

FEATURES

The LCC550 is designed to allow connection of the modern system of parking charging (existing and future) to parking systems that are already installed in the parking area. This enables the improvement of parking payment without replacing existing equipment.
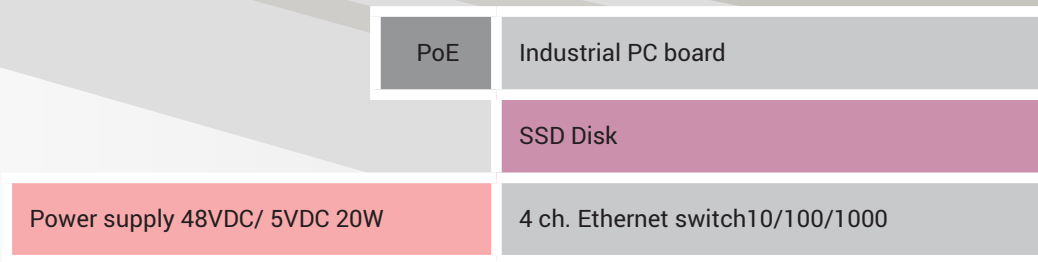
Flexibility
The LCC550 was designed to allow remote control and management of the system, and possibility of adding new system functions based on customer requirements via remote control. Processor, memory and communication resources allow for a wide range of applications for different purposes.

Reliability
The LCC550 is designed to operate successfully in different types of environment (temperature, humidity) and thus ensures stable operation under all conditions. The installed operating system Linux Debian 7 ensures stable operation of all the applications in the system.

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LCC550

PoE	Industrial PC board
	SSD Disk

Power supply 48VDC/ 5VDC 20W	4 ch. Ethernet switch10/100/1000

INDUSTRIAL PC BOARD SPECIFICATION

PROCESSOR

- Intel® Atom™ Processor E3815 (1.46 GHz Single Core, 512 KB Cache, 5W TDP),

GRAPHICS

- Intel® HD Graphics (400 MHz),

SYSTEM MEMORY

- One DDR3L SO-DIMM slot for memory expand ability up to 8 GB,
- 1.35V, 1333/1600 MHz (down clocked to 1066 MHz),

STORAGE CAPABILITIES

- One SATA port (3 Gb/s) with SATA DOM support and + 5V SATA power header,
- Internal support for 2.5¨ HDD or SSD (up to 9.5mm thickness),
- 4 GB eMMC device built-in,
- Trusted Platform Module device (TPM 1.2),

PERIPHERAL CONNECTIVITY

- Integrated 10/100/1000Mbps Ethernet,
- Network Connection,
- One SuperSpeed USB 3.0 port (front panel),
- Two Hi-Speed USB 2.0 ports (back panel),
- Three USB 2.0 ports (internal header),
- Two serial ports (internal header),

SYSTEM BIOS

- 64 Mb Flash EEPROM with Intel® Platform,
- Innovation Framework for EFI Plug and Play,

MECHANICAL CHASSIS SIZE

- 190 mm x 116 mm x 40 mm,

BASEBOARD POWER REQUIREMENTS

- 12-24V DC internal power header,

SSD DISK SPECIFICATION

- Form factor — 2,5″,
- InterfaceSATA — Rev 2.0,
- Sequential writes — 260 MB/s,
- Sequential reads — 280 MB/s,
- Power Consumption read — 3.0 W - write 1.7 W - read 0.6 W - idle,
- Capacities — 30 GB – 60 GB – 90 GB – 120 GB
- Operating temperature — -40^0 C / $+80^0$ C,
- Weight — 92.3 g,

ETHERNET SWITCH SPECIFICATION

- Interface — 4x 10/100/1000Mbps RJ45 Ports AUTO Negotiation/AUTO MDI/MDIX,
- Power Supply — 5 VDC,
- Dimensions — 103.5 x 70 x 22 mm (W X D X H),
- Fan Quantity — Fanless,
- Transfer Method — Store and Forward,
- Advanced Functions — Green Technology, saving power up to 60% 802.3X Flow Control, Back Pressure, Auto-Uplink Every Port,
- System Requirements — Microsoft® Windows® 98SE, NT, 2000, XP, Vista™ or Windows 7, MAC® OS, NetWare®, UNIX® or Linux,.
- Environment — Operating Temperature: -20℃~70℃, Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing...

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