E210 Series

Cost-Effective, Rugged LTE Routers

PERCEPXION



WAN, LAN, WI-FI SMART IOT ROUTER WITH EDGE CAPABILITY IN A COMPACT, INDUSTRIAL FORM FACTOR

Lantronix E210 industrial-grade routers are designed with high resiliency, Cellular LTE M1, Cat-1 or Cat-4 options, WAN, LAN, Wi-Fi, and serial connectivity, providing robust connectivity for faultless requirements. Now offered with Percepxion, our secure cloud platform that provides comprehensive life cycle management, application integration and analytics through a single pane of glass. E210 is perfect for IoT and enterprise applications, including industrial automation, Industry 4.0, smart city, smart building applications, and transportation connectivity. E210 series routers provide state-of-the-art load balancing and multiple VPN tunneling schemes, including IPsec, and cellular/WAN/Wi-Fi failover schemes.

Protect, Process, and Customize the Edge

Based on Linux frameworks and Lantronix ePack software suite, the E210 routers provide a user-friendly environment to develop your application, leverage the crowd and the community of Linux developers, and more than hundreds of applications supported by our Linux framework.

Reduce your recurring cost and ensure the fastest response time from your device in two ways:

- Store logs for records, store external device data for data logging purposes on E210 SD card
- Send to the cloud only what you need by processing the data to the edge

Ultimate Stability with Load Balancing and Failover Using Dual SIM Operation

Lantronix E210 has an automatic failover functionality that prevents your loss of communication even if you have a connection problem with cellular redundancy by dual SIM support. Switching based on Quality of Service. Program your scripts and conditions of switching.

Security and VPN support

Keep your critical data safe from cyber-attack by using advanced encryption such as AES, SSL/TLS. E210 supports major VPN profiles, including Open VPN, which offers the highest performance, is reliable on high latency connections, and is easy to set up. With a 256-bit encryption protocol, your information is safe. This platform offers improved stability and compatibility for all your devices.

Lantronix Software Services

Percepxion - This secure cloud platform provides comprehensive, ready-to-use device life cycle management, application integration and analytics through a single pane of glass. https://www.lantronix.com/percepxion/

Perfect For:



Industry 4.0



Smart Building & Smart City



Security



Sales & Payment

E210 Series Highlights

- Pre-configured with Percepxion™ IoT Edge solution platform
- Fieldbus protocol conversion: Modbus, DNP3, IEC 104, DLMS, Dual Sim
- Edge programing and processing
- Ultra-compact form factor
- Multiple interface
- Industrial-grade

LANTRONIX

E210 Series

Cost-Effective, Rugged LTE Routers

Hardware

Wi-Fi

- 1T1R Wi-Fi 4; via an RP-SMA antenna connector

Cellular

One- or two-antenna models as:

- LTE-M1 E213G; via an SMA antenna connector
- LTE cat. 1 E214[G]
- LTE cat. 4 E218[G]; via two SMA antenna connectors (main and diversity)

I/Os

Two isolated digital I/Os; via the lower row of the same header

- INPUT: 0 V dc ~ 1 V dc → ZERO; 1.4 V ~ 36 V dc → ONE
- OUTPUT: open collector; 100 mA max.; 36 V dc max.

Serial Communication

- RS232 Full implementation; via a 9-pin sub-D header

10/100Base-Ethernet

- One LAN port and one WAN port, user-reconfigurable as second LAN port; via RJ-45 headers fitted with two LEDs

Dual SIM

- Dual SIM / Single standby ("DSSS"); via two mini-SIM held in trays

Location Services

- Concurrent GPS and GLONASS (E213G); IZat™ gen. 8CpsOne (E214G, E218G); via a dedicated SMA antenna connector

Data Storage

- Via a user-accessible microSD card (not provided)

DDR2 SDRAM

- 128MB DDR2 SDRAM

MFF SIM(s)

- Combination of (i) 'MFF + mini'; or (ii) 'mini + MFF'; or (iii) 'MFF + MFF' SIMs, substituted for the standard two mini-SIM trays

Physical Description

- Brushed aluminum alloy
- Size: (MM) 92.5 x 57.2 x 22.5
- Weight: Approx. 150 g
- LED: (i) POWER; blue for (ii) SIM; (iii) Wi-Fi; amber for (iv) Activity; (v) Network; (vi) Signal; red for (vii) ALERT

Temperature & Humidity Ranges

- Operating: -20 °C ~ +70 °C; up to 95% RH
- Storage: -40 °C ~ +85 °C; up to 95% RH

CPU

- MIPS32® 24KEc™ CPU running at 580 MHz
- Built-in 64 KB [resp. 32 KB] instruction [resp. data] cache
- SPI Flash Memory: 32 MB

Power-off Timekeeping

- RTC with an approx. 100-day data retention period; courtesy of a 15 mWh lithium manganese battery (not functional below -20 °C)

Power Consumption (W)

- All figures worst-case (60 °C, 32 V, all subsystems fired on, etc.)
- Idle: 1.10 (E213); 1.10 (E214); 1.10 (E218)
- Standby: 2.63 (E213); 2.63 (E214); 2.63 (E218)
- Communication (Tx max.): 6.18 (E213); 6.18 (E214); 6.18 (E218)

Power

- 8 V dc ~ 32 V dc with SLOW START; via the upper row of a dual row, 4-pin, Micro-Fit™ 3.0 header

Software Suite

Administration And Network Protocols

- Web-based user interface, setup wizard, console log viewer, save / load configuration, NTP, SMS / OTA remote configuration, TR-069-capable

Redundancy

- Web-based user interface, setup wizard, console log viewer, save / load configuration, NTP, SMS / OTA remote configuration, TR-069-capable
- Ethernet, Cellular, Wi-Fi – configurable as failover or load balancing

Resilience

- Network connectivity watchdog (configurable), internal application watchdog

Wi-Fi

- Client or Access point (approx. 40-user), multiple SSID, WEP, WPA, WPA-PSK / WPA2-PSK security modes

Device Management Services

- Lantronix Percepxion™ platform or third-party platforms

Performance And Fault Management

- Real time processor load and interface (WAN / LAN / Wi-Fi), traffic analysis, ICMP, trace-route, NS lookup

Routing

- DHCP, static routing, port forwarding, traffic routing, static /dynamic DNS, DNS proxy, NAT, STP

VPN

- PPTP client, L2TP, OpenVPN client / server / passthrough, GRE, IPsec
- SSL v3, SSH v2 Client & Server - up to 2048-bit certificates
- Encryption: AES 3DES, RC4
- Authentication: SHA-1, MD5, Base-64 connectors

Security

- Zone-based firewall, VLAN, DMZ, HTTPS local and remote connection, SIM PIN

Industrial Protocols

- MODBUS RTU/TCP to IEC-60870-5-104 converter
- Modbus Master mode
- Modbus RTU to Modbus TCP converter
- Modbus to MQTT / Cumulocity / FTP / Azure / Http, Serial to FTP converter
- IEC-60870-5-101 to IEC-60870-5-104 converter
- Modbus to DNP3 converter
- I/O to Modbus converter
- I/O to IEC 104
- I/O toggling through SMS

Warranty

- One Year Limited

Certifications

- E213 UL, CB, FCC, PTCRB, IC, CE, UKCA, RCM, VERIZON, AT&T
- E214 CE, SIRIM, FCC, PTCRB, IC, VERIZON, AT&T
- E218 NBTC, JTELEC

Ordering

Visit www.lantronix.com/products/e210-series-routers/ for a full listing of available accessories.

Part Number	Description
E213F102S	ROUTER, WORDLWIDE; LTE M1; 2G FB; 2x ETHERNET PORT LAN AND WAN/LAN; 1x RS-232 PORT; 1T1R WI-FI 4; DUAL SIM; SD CARD; 2x I/O
E214F002S	ROUTER, EMEA, MALAYSIA; LTE CAT-1 BANDS 28, 20, 8, 3, 1, 7; 3G & 2G FB; 2x ETHERNET PORT LAN AND WAN/LAN; 1x RS-232 PORT; 1T1R WI-FI 4; DUAL SIM; SD CARD; 2x I/O
E214F00CS	ROUTER, CHINA, INDIA, INDONESIA; LTE CAT-1 BANDS 5, 8, 3, 1; TDD 40, 41; 3G & 2G FB; 2x ETHERNET PORT LAN AND WAN/LAN; 1x RS-232 PORT; 1T1R WI-FI 4; DUAL SIM; SD CARD; 2x I/O
E214G000S	ROUTER, AT&T, T-MOBILE; LTE CAT-1 BANDS 12, 5, 4, 2; 3G FB; 2x ETHERNET PORT LAN AND WAN/LAN; 1x RS-232 PORT; 1T1R WI-FI 4; DUAL SIM; SD CARD; 2x I/O; GPS
E214G001S	ROUTER, VERIZON; LTE CAT-1 BANDS 13, 14; 2x ETHERNET PORT LAN AND WAN/LAN; 1x RS-232 PORT; 1T1R WI-FI 4; DUAL SIM; SD CARD; 2x I/O; GPS
E218F004S	ROUTER, ANZ, BRAZIL, THAILAND, MALAYSIA, SINGAPORE; LTE CAT-4 BANDS 28, 5, 8, 3, 1; 3G & 2G FB; 2x ETHERNET PORT LAN AND WAN/LAN; 1x RS-232 PORT; 1T1R WI-FI 4; DUAL SIM; SD CARD; 2x I/O; GPS
E218G107S	ROUTER, JAPAN, SOUTH KOREA; LTE CAT-4; 2x ETHERNET PORT LAN AND WAN/LAN; 1x RS-232 PORT; 1T1R WI-FI 4; DUAL SIM; SD CARD; 2x I/O; GPS

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Learn More at lantronix.com/products/E210

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