M110 Series



INDUSTRIAL IOT M1, & LTE CAT 1 CELLULAR MODEM IN A COMPACT FORM FACTOR

Connectivity Services

Lantronix Mobility Solutions M110 modems are designed to provide connectivity across a broad range of M2M and IoT applications. They allow Internet connectivity via serial port to PLCs, Meters, Vending Machines. The Lantronix M110 enables transporting data from any industrial device to data control servers, allowing businesses to benefit from real-time data monitoring, management and control.

Compact Design

Lantronix M110 series modems are a smart modem supporting serial RS-232 and USB communication on a small form factor for fast and seamless integration with industrial equipment such as electricity meters, programmable logic controllers, lifts and vending machines.

Multiple Cellular Network Support in 4G LTE-M1 & Cat 1

M110 is available on LTE standards such as LTE Cat 1 and M1 for IoT applications, allowing devices that operate on carrier networks to be less expensive and more power-efficient.

Low Power Consumption for Remote IoT Application

Deploying IoT devices in remote access requires low power consumption in an environment when electricity is not always on and the device needs to run for a month on battery or solar panel. M110 can achieve as low as 21 mA in idle mode, giving a month of autonomy when the device simply wakes up when communication is triggered.

Intelligent Modem Running mPack Software

M110 modems have been specially designed to be easily deployed in your retrofit solution. Its auto TCP dial-up function allows initiating any communication of a serial device with or without dial-up capability. Device options like dial-up, TCP/UDP permanent client/server or on-demand client with two TCP are all available.

Optional RS485 with SNAP CAP™

Snappily converts M110 series' RS-232 port on a 9-pin sub-D connector into an isolated *, half or full-duplex (user-selectable via a slide switch) RS-485 port on a 5-pin, 3.5 mm pitch, COMBICON connector. * i.e with integrated transformer, thus allowing for 1.5 km-long cabling.



LANTRONIX

Perfect For:





Oil & Gas Monitoring



Smart Metering



Industrial Automation

M110 Series Highlights

- Available in LTE-M1, LTE Cat 1
- Two versatile I/Os
- Compact Design (60 x 66 x 21.7 mm)
- mPack Software Suite
- Low power consumption in idle mode
- Compatible with Lantronix Connectivity
 Services



M110 Series

Hardware

 LTE Cat 1 M114; via two SMA antenn connectors (main and diversity)
 DIGITAL OUTPUT: open collector; 200 m. max.; 50 V dc max. Factory Option - 3-Way I/Os: Third possib configuration as (iii) analogue input suite to current loop sensors (aka 4 mA ~ 20 mA sensors)*
ub-D header
on of the mini-SIM tray
Operating Status LEDs: Two as Power/
Cellular Signal
 Reset Button: Short / Long press for Res / Reset to factory settings
, 5
 Storage: -40 °C ~ +85 °C; class B
• Storage: -40 C ~ +85 C, class B
KB RAM
SPI Flash Memory: 2 MB
 15 mWh lithium manganese battery (not functional below -20 °C)
• Standby: 2.31 (M111); 2.63 (M113); 2.63
(M114) • Communication (Tx max.): 5.54 (M111);
6.18 (M113); 6.18 (M114)

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

Software Suite

MPack Software Suite

- Connectivity: Dial-up, TCP / UDP permanent client / server or on-demand client with two
 TCP / UDP sockets for failover, Network connectivity watchdog
- Miscellaneous Features: Support for concatenated SMS, TCP, Configurable text and
- recipient(s) upon Last GaspDOTA: via user's HTTP server

Last Gasp

 Factory Options: Allows for sending at least five 30-character SMS at one-second intervals; courtesy of two industrial-grade super caps*

Connectivity Services

· Compatible with Lantronix Connectivity Services https://shop.lantronix.com/

Warranty

1 year limited

Certifications

- M113 ISED, FCC, PTCRB, Verizon Wireless, AT&T, Wireless, RCM,
 M114 CE ECC, BCM, NCC.
- Essential Accessories

Power Cords

• KDC42 or KDC44 (the latter with two more stripped wires for I/Os)

USB Cords

KUCA1, 0.8 meter-long, Type-C plug ↔Type-A plug

Remote, Adhesive, Antennas

- All IP67-rated, except for ACC-A31 (IP33) and ACC-A31H (N/A)
- A31M0 or A31H0, LTE: M111, M115, M112, M113
- A32M0 or A32H0, '2-in-1' LTE + LTE: M114

Din Rail Clip

• BR350, 3½ U

Product SKUs

Part Number	Description
M113F00FS	M113M1/NB1 Worldwide - LTE-M1 / NB-IoT Band 12, 28, 13, 20, 26, 8, 3, 4, 25, 1 - RS-232 & USB Ports - 2 I/ Os - MPack
M113F002S	M113M1/NB1 2GFB Worldwide - LTE-M1 / NB-IoT Band 12, 28, 13, 20, 26, 8, 3, 4, 25, 1 - 2G FB, RS-232 & USB Ports - 2 I/Os - MPack

*Factory Options - Subject to MOQ and other considerations

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Learn More at lantronix.com/m110-series-modems

