

ECL-EdgeX

ECL-EdgeX is a flexible, extendable device for analytics, remote control and connectivity. Its processing and storage capacity allows IOT analytics on-site. A range of connectivity options are supported including WLAN, Bluetooth, ZigBee, Ethernet, 3G/LTE.



Hardware Features

- Management CPU NXP i.MX6 SoloX
- ARM Cortex M4 220 MHz, 2 GB RAM
- Real Time Clock (RTC)
- Hardware Watchdog
- Integrated TCP/IP Stack,
- UDP/TCP/DNS/Ping/
- HTTP/FTP support

Storage

- 1xSDIO 32GB SD Card
- 1xSD 32GB
- 1x64 MB QSPI NOR Flash

Interfaces

- 1x 100/1000 Mbps RJ45 Ethernet
- 1x RS232
- 1x RS485
- 1x 480 Mbps HCSI (USB 2.0)
- 1x USB OTG
- 1x USB Host
- 1x UART - G3 Power Line Communication
- 1x SPI - Graphic LCD interface
- 1x SDIO - SD card
- 1xSD for system SW image
- 1x I2C
- 1x Tamper Switch

Operating System

- Linux

JAVA Features

- Java™ ME 3.2
- Secure data transmission with HTTPS/SSL
- JAVA OTAP Remote Application Updates

Wireless Interfaces

- 1x GSM/GPRS 2G/3G (USB 2.0)
HSUPA Max 5.76 Mbps HSDPA Max 7.2 Mbps
UMTS Max. 384Kbps (DL)/Max. 384Kbps (UL)
EDGE Max. 236.8Kbps (DL)
GPRS Max. 85.6Kbps (DL)/Max. 85.6Kbps (UL)
CSD GSM: 14.4 Kbps (DL)/14.4 Kbps (UL)
WCDMA: 64 Kbps (DL)/64 Kbps (UL)
- 1xBLE 5.0 (Bluetooth) & ISM SubGHz (315, 433, 470, 868, 915 MHz) OR Multi-standard 2.4 GHz
- Low power IPv6 6LoWPAN
- 1 x ZigBee
- 1 x RF4CE
AES-128 Crypto
- 1 x WiFi(SDIO)/BLE5.0(UART)
SDIO: 65 Mbps
802.11bgn W-LAN module

Networking Features

- Gigabit Ethernet

Protocol Support

- SW configurable

Operating System Hosting

- Linux hosted as Virtual Machine

Power Input

- 4V, 2W

Environmental Specifications

- -30 +85 C