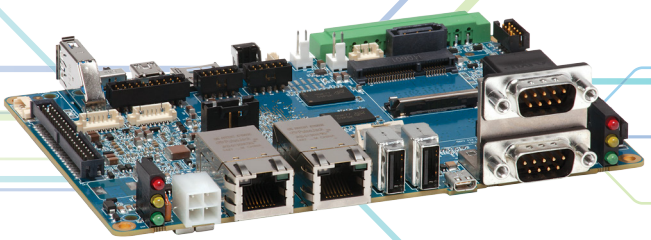
Low Power, Rugged
i.MX6 SBC

# CPU-351-13

- IoT and M2M Ready
- Multicore i.MX6, up to 1.2GHz
- Protected Wide Range Power In
- CANbus
- Camera Input
- On-board Accelerometer
- WiFi, Bluetooth, Zigbee
- Cellular and GPS Options
- Linux and WEC 7
- -40° to +85°C Operation



EDC ESF

## FEATURES

**Low Power, up to 4 cores** – Based on the highly integrated Freescale i.MX6 SOC, with 1 to 4 cores up to 1.2GHz

**Connected** – Global cellular options, WiFi, Zigbee, Bluetooth 4.0 (with LE), dual Gb Ethernet

**Features for transportation** – 50ch GPS, CANBus, 3-axis accelerometer, protected wide range power in

**Graphic capabilities** – Two video ports: LVDS and HDMI with integrated 4/5 wire resistive touch controller

**Power management** – Multi-chemistry battery charger, smart power monitor

**Rugged** – Extended operating temperature (-40° to +85°C)

**IoT / M2M ready** – Supports Eurotech's EDC, the end-to-end cloud solution that offers open M2M protocols, cloud-based databases, brokers, and easy to use REST APIs

The CPU-351-13 is an iMX.6 Single Board Computer board that delivers a large number of interfaces and peripherals while keeping the overall power consumption at a low 4W for typical applications.

Designed to be employed in a wide range of industral and transportation applications, the CPU-351-13 provides key features such as 6-36VDC protected power in, CANBus with optional J1939(CAN)/J1979(OBDII)/J1708 support and extended operating temperature.

With an on-board multi-chemistry charger, the CPU-351-13 simplifies the design of battery powered applications; an additional benefit comes from the integrated Smart Power Monitor, which can be used to keep the board within a user-defined power profile.

Support for cellular communications is available both on board and through the external Eurotech ReliaCELL adapter family, which provides pre-certified, worldwide coverage.

The CPU-351-13 accelerates the development and deployment of IoT/M2M applications: it supports EDC, Eurotech's cloud for embedded devices. EDC is a complete offering consisting of open M2M protocols, cloud-based resources like databases and brokers, and REST APIs.

The CPU-351-13 also supports ESF, Eurotech's Java-based framework for embedded devices. With ESF it is possible to develop portable applications in a fraction of the time thanks to high level, industry specific APIs.

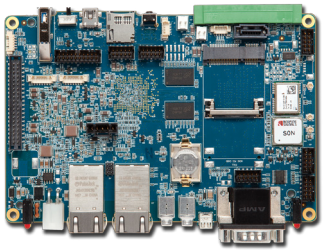
To kickstart your projects and accelerate time to market, contact the Eurotech sales team to order a development kit.

EUROTECH
Imagine. Build. Succeed.

# CPU-351-13

## Specifications

**Low Power, Rugged i.MX6 SBC**



## System Architecture

| | |
|---|---|
| PROCESSOR | Freescale i.MX6, 1 to 4 cores, up to 1.2GHz |
| MEMORY | Support to 4GB DDR3 - soldered |
| STORAGE | Up to 64GB eMMC Flash (4GB standard)<br>MicroSD expansion slot<br>SATA interface for SDD/HDD (dual/quad core) |
| NETWORK | 2x Gigabit Ethernet |
| SERIAL INTERFACES | 2x RS232/485/422<br>2x RS232 (optional)<br>$I^2C$<br>SPI |
| PCI EXPRESS | MiniPCI express socket |
| WIRELESS | **GPS** - 50 channel receiver<br>**WIFI** - 802.11 a/b/g/n- Access Point & Client (AP Linux only)<br>**BLUETOOTH** - V4.0 (with Bluetooth Low Energy) (Linux)<br>**CELLULAR** - Internal option (contact factory)<br>- ReliaCELL 10-20 (external adapter)<br>*Technology: 2G GSM, 2.5G CDMA, 3G GSM, 3G CDMA, 4G LTE* |
| CAN | 1x CANBus<br>J1939(CAN)/J1979(OBDII)/J1708 (contact factory) |
| USB | 3x USB 2.0, type A, 1x USB 2.0 (internal header) |
| VIDEO | LVDS<br>RGB<br>HDMI (optional)<br>Two indipendent video ports (dual/quad core)<br>4/5 wire resistive touch controller |
| CAMERA INPUT | 3x analog video inputs (contact factory) |
| AUDIO | Analog audio in/out |
| ANALOG INPUT | 2x analog voltage in |
| DIGITAL I/O | 8x isolated GPIO / 4x4 Key Pad |
| SENSORS | 3 axis accelerometer |
| POWER | 6 to 36VDC power in (5V optional)<br>4W typical<br>Multi chemistry battery charger<br>Li-ion/Polymer, LiFePO4,<br>Lead Acid (contact factory)<br>Smart Power Monitor |
| TEMPERATURE | Operating: -40 to +85°C (800MHz)<br>-20 to +85°C (1.2GHz) |
| HUMIDITY | 95% relative at +45°C non-condensing |
| SOFTWARE | Linux (Yocto), WEC2013<br>Everyware Device Cloud ready<br>Everyware Software Framework |
| PHYSICAL | Dimensions: 102 x 153mm |



ETH_CPU-351-13_DS_EN_06/2016_Rev-03

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