EPPU

Enics Phone Powering Unit

Phone Powering Unit provides a bridge over Ethernet to USB devices. It controls USB charging current. Up to 20 USB devices can be connected.

What is it?

Phone Powering Unit enables systems where tens of USB devices are connected to one server. Virtual USB devices are created to server.

Physical location of PPU and USB devices can be far away from server itself in the same Ethernet subnet.

Phone Powering Unit can control USB charging current of connected USB devices. Charging control enables longer battery life.

It is possible to keep USB data connection alive when not charging the mobile device.

Where is it used?

Phone Powering Unit is to be used in automated testing systems and in laboratory automation systems.

Phone Powering Unit can be implemented for example telecom base station end-to-end testing, mobile application testing, phone verification and many more.
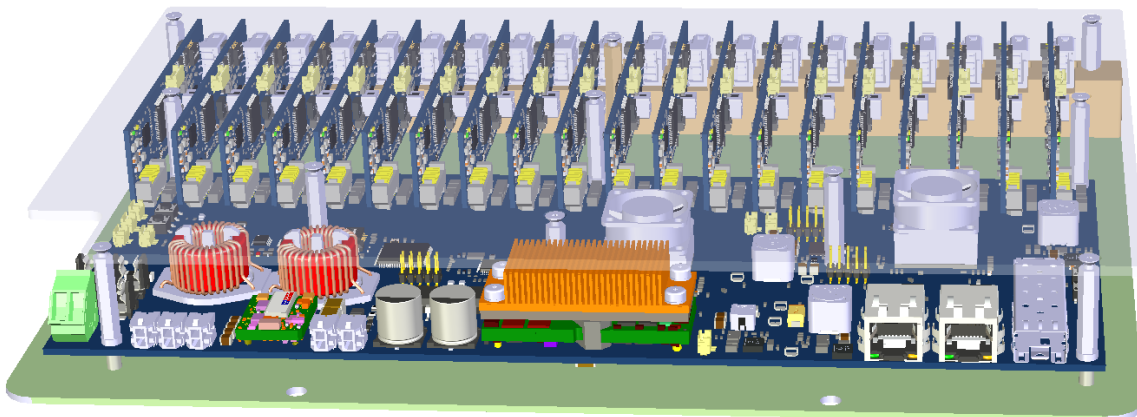
More information:

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Technical Data

General information

- Dimensions:
  L320 x W230 x H40 mm
- Supply Voltage:
  36…60 VDC (+ or - ground, isolated)
- Maximum input current:
  10 A
- Maximum input power consumption:
  350 W
- Fan power supply output:
  12V 2A max shared for three outputs
- Number of USB module slots:
  20
- Operating temperature range:
  0-40 C

Connections

- 2 x Ethernet 10M/100M/1G
- 1 x SFP slot available, optical 1G
- Input power screw terminal 2,5-4 mm^2
- 3 x FAN output connectors
- 2 x power control connectors

USB Charging

- Maximum output current:
  2.5 A per USB port
- Current limit options:
  100mA, 250mA, 500mA…2500mA
- Output voltage range:
  Adjustable 2500mV…5200mV

Remote Control

- Ethernet HTTP/TCP/UDP
- Web user interface
- Suitable for laboratory and test automation use

Measurements

- Temperature measurements
- USB module output current measurement
- USB module output voltage measurement
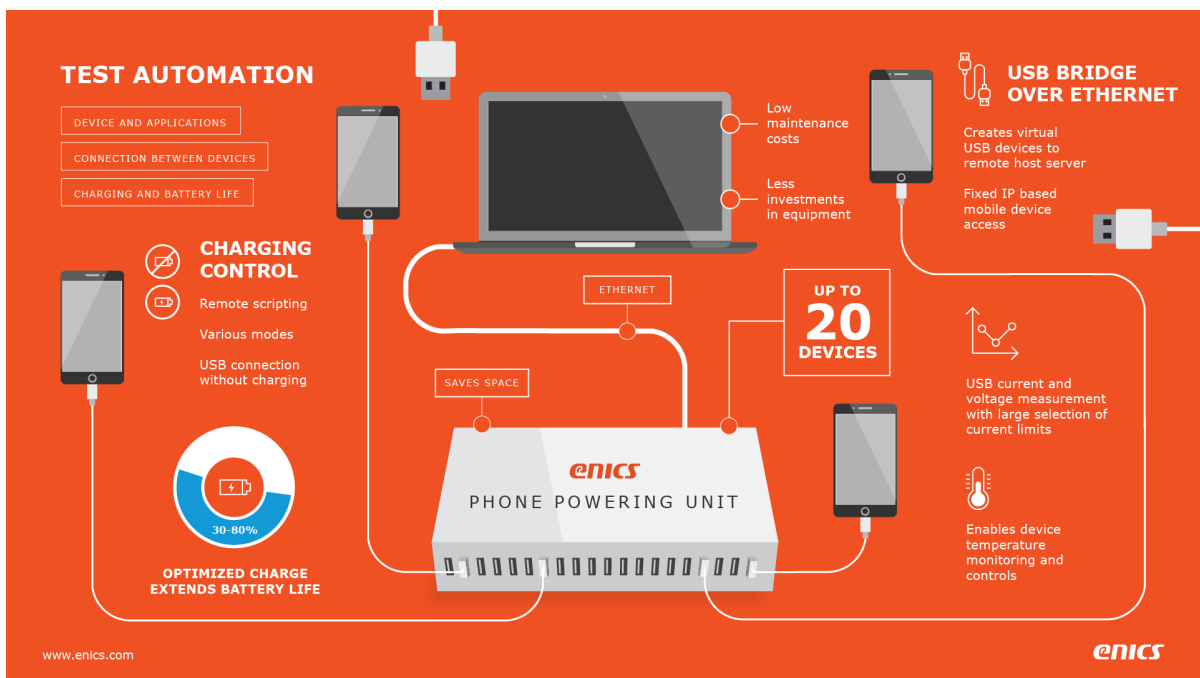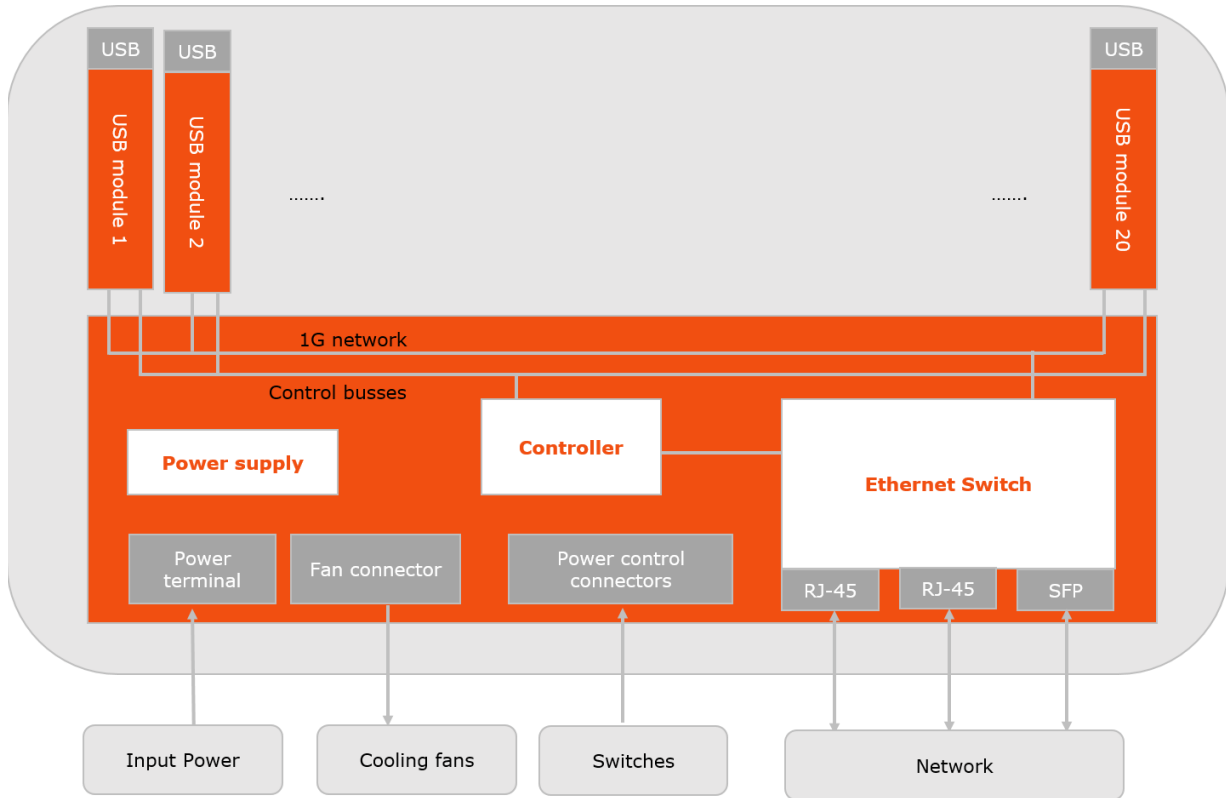- USB module total output current (calculated)

Use Cases

- Base station end-to-end testing
- Mobile application development and testing
- Phone verification

Functional Diagram

TEST AUTOMATION

DEVICE AND APPLICATIONS

CONNECTION BETWEEN DEVICES

CHARGING AND BATTERY LIFE

CHARGING CONTROL

Remote scripting

Various modes

USB connection without charging

30-80%

OPTIMIZED CHARGE EXTENDS BATTERY LIFE

SAVES SPACE

ETHERNET

PHONE POWERING UNIT

UP TO 20 DEVICES

Low maintenance costs

Less investments in equipment

USB BRIDGE OVER ETHERNET

Creates virtual USB devices to remote host server

Fixed IP based mobile device access

USB current and voltage measurement with large selection of current limits

Enables device temperature monitoring and controls

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