



Quasar™ 4G

Edge Node Supervisor



Key Features

- Cat 4 or Cat 1 4G LTE modem with GPS
- Secure device supervisor, able to securely manage most Linux hosts
- Integrated with Rubicon enclosure ecosystem
- Dedicated management CPU with crypto engine
- Fully programmable 25W digital power supply with battery charging and direct MPPT solar input
- Dual protected power busses for user hardware
- Dedicated Bluetooth and NFC for maintenance
- Remote Cortex M0 target program+debug
- Carrier certified, comes with a data plan

Quasar is a cellular connected supervisor and power supply module for Linux hosts such as Raspberry Pi and Beaglebone. Designed to end your product’s reliance on Ethernet or WiFi connectivity, the Quasar keeps your project connected with a 4G LTE modem. Fully carrier certified, Quasar comes with a flexible data plan at an affordable price.

Quasar is fully integrated with Rubicon enclosure and accessories and makes deployment easy. A robust power supply provides the capability to run on solar power directly and charge various battery configurations; both active and passive heat management are supported.

Quasar-equipped installations are very easy to set up and service via dedicated maintenance Bluetooth and NFC connections. Out-of-band device management allow for remote debugging and firmware updates – all secured with a crypto chip.

Deploy your projects with confidence and make IoT deliver on its promise.

Specifications	
Exterior Dimensions	65 x 56 x 13 mm 2.56 x 2.2 x 0.51 in
Enclosure Integration	Rubicon, Rubicon L, heatsink to back plate
Temperature	-40°C to 55°C
Humidity	0 to 90%, non-condensing
Certifications	FCC, PTCRB, Carrier, RoHS, REACH

Features	
Power Supply	Input 5VDC – 24VDC, 25W max Over-voltage, over-current, surge protection
Connectors	USB Type C with PD, Phoenix direct wire in
Battery Support	1S to 4S Lithium, Lead Acid, Primary Lithum
Management Conn.	Dedicated BTLE + NFC with unpowered reads
User Host	Pi A+/B+/2/3/Zero, BeagleBone, other Linux
Cryptography	Dual engines, black keys, ECDHA, ECC, etc.

Cellular	
Modem type	4G LTE CAT 1 or CAT 4, USB 2.0 to Linux host
GNSS	Included, external antenna, powered
Carrier	Verizon (USA), TBD other locations
Speed	Up to 100Mb/s download, 20 Mb/s upload