

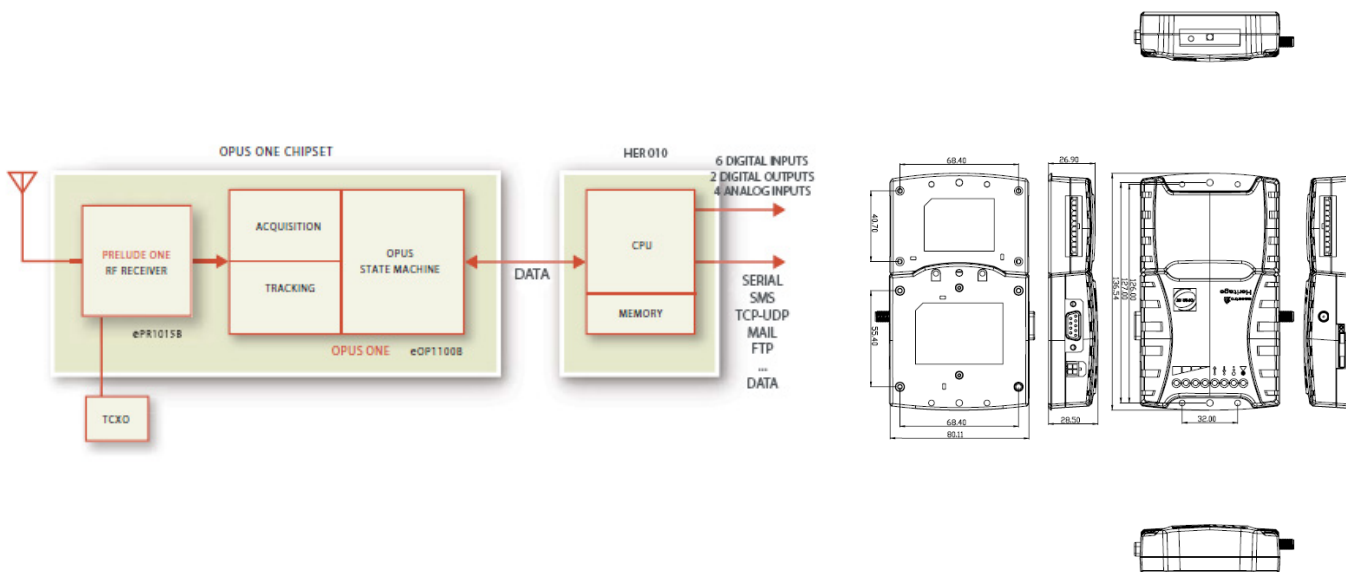


Heritage GPS Board

Less redundancy, lower power consumption, and unparalleled cost savings.

FEATURES

- Versatile:** 32 channel receiver/baseband processor chipset
operates in Autonomous and Assisted-GPS mode
8 Channel Tracking
- Ultra-high Sensitivity:** **-157 dBm sensitivity** ensures position fix availability
indoors, outdoors and in urban canyons
- Fast:** < 4 sec TTFF ensures user satisfaction
- Highly Accurate:** < 7 m outdoor, < 30 m indoor typical, live-sky measurements
- Low Power:** 110 mW power consumption while tracking, intelligent
power management helps extend battery life in handheld
products



HARDWARE - SPECIFICATION

6 Input ports – Opto-Coupler

High voltage isolation to protect the unit (Viso = 1,500Vrms & 2000VDC)

Wide range input voltage from 5 to 24VDC

2 Output ports – Opto-Coupler (Open Collector)

High voltage isolation to protect the unit (Viso = 1,500Vrms & 2000VDC)

Maximum Load current Iload = 600mA

Load voltage Vload = 160VDC

4 Analog Inputs

Input voltage range 0-24VDC

Over-voltage protection (Maximum input voltage ~ 30VDC)

10 bits resolution



GPS - SPECIFICATION

Position Accuracy:

Outdoors1: < 7 m, 50% CEP, Open Sky1

Indoors2: < 30 m, 50% CEP

Start-up Times:

Hot Start: Outdoors1: < 3 sec Indoors2: < 20 sec

Warm Start: < 37 sec

Cold Start: < 44 sec

Supply Voltage:

OPUS One Core: 1.2 V, I/O: 3.0 V

Power Consumption:

Deep Sleep Mode: < 99 μ W

Opus One Search Mode: 174 mW

Opus One Track Mode: Outdoors: 112 mW / Indoors: 164 mW



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