Small Form Factor (SFF)

No CPU

Sidekiq MiniPCIe
GPS ✕

- 45M - 6GHz
- 50 MHz
- 60 dB
- 2 Rx/ 1 Tx
- PCIe
- 12 bit
- *2 W*
- 8 dB NF

0.3 oz./ 8 g

Sidekiq M.2
GPS ✕

- 45M - 6GHz
- 50 MHz
- 60 dB
- 2 Rx/ 2 Tx
- PCIe
- 12 bit
- *2 W*
- 8 dB NF

0.2 oz./ 6 g

Sidekiq NVM2
GPS ✕

- 10M - 6GHz
- 50 MHz
- 75 dB
- 2 Rx/ 2 Tx
- PCIe
- **16** bit
- *3.5 W*
- 16 dB NF

0.3 oz./ 9 g

Sidekiq X4
GPS ✕

- **1M** - 6GHz
- **450** MHz
- 75 dB
- **4** Rx/ **4** Tx
- JESD
- **16** bit
- *11 W*
- 8 dB NF

2.7 oz./ 77 g

With CPU

Sidekiq Z2
GPS ✕

- 45M - 6GHz
- 50 MHz
- 60 dB
- 1 Rx/ 1Tx
- USB
- 12 bit
- *2 W*
- 8 dB NF

0.3 oz./ 8 g

Sidekiq Stretch
GPS ✓

CE

- 45M - 6GHz
- 50 MHz
- 60 dB
- 1 Rx/ 1Tx
- PCIe
- 12 bit
- *2.5 W*
- 8 dB NF

0.3 oz./ 9 g

Sidekiq NV100
GPS ✓

- 10M - 6GHz
- 50 MHz
- 75 dB
- 2 Rx/ 2Tx
- PCIe[2]
- **16** bit
- *5 W*[2]
- 5 dB NF

0.3 oz./ 9 g

Key:
- GPS Disciplined Oscillator, yes/no
- Weight
- Fmin - Fmax, Hz
- Max IBW, MHz, might combine channels
- SFDR, dB
- Max Rx/ Max Tx channels, usually not simultaneously
- Signal output interface
- Rx bits
- *Power consumption, typ.*
- NF = noise figure

More Information:
- *www.epiqsolutions.com*
- info@epiqsolutions.com

(Epiq Solutions Homepage)

SOSA/ CMOSS

No CPU, Flexible[1]

VPX400
GPS ✕

- **1M** - 6GHz
- **450** MHz
- 75 dB
- **4** Rx/ **4**Tx
- PCIe/ Ethernet
- **16** bit
- *40 W*
- 8 dB NF

1.1 lb./ 0.5 kg

CPU/GPU-Enabled

VNX+ Dev Platform
GPS ✓

NEW

- 10M – 6GHz
- 50 MHz
- 75 dB
- **4** Rx/ **4** Tx[3]
- Ethernet
- **16** bit
- *40 W*
- **5 dB NF**

5.5 lb./ 2.5 kg

High Performance Streaming, no CPU

NDR374
GPS ✕

- 2M - **8GHz**
- **125** MHz
- 90 dB
- **4** Rx
- Ethernet
- **16** bit
- *60 W*
- 15 dB NF

2 lb./ 0.9 kg

NDR585
GPS ✕

- 20M – **18GHz**
- **500** MHz
- 100 dB
- **4** Rx
- RF
- (No bits)
- *48 W*
- 15 dB NF

2 lb./ 0.9 kg

RF Distribution & Cal

RF Distribution

NDR505
GPS ✕

Features:
- *Feeds multiple antenna sets into a four channel SDR*
- *475 MHz to* **18.5 GHz** *banded coverage*

2.9 lb./ 1.3 kg

40 GHz Downconverter

NDR504
GPS ✕

Features:
- *Inputs* **18 to 40** *GHz*
- *4 Rx*
- *Crazy small*
- *Output <18 GHz*
- *Cal input*

45 W

2.5 lb./ 1.1 kg 12 dB NF

CPU = Available processor capable of running Linux etc. for customer use. [1] SOSA-aligned or Libsidekiq flexible. [2] Thunderkiq NV100: 5-7 W, Thunderbolt 3

Platforms - SFF

With CPU

Matchstiq Z2

- 45M – 6GHz
- 50 MHz
- 60 dB
- 1 Rx/ 1Tx
- USB
- 12 bit
- *2.5 W*
- 8 dB NF

GPS ✕

3.2 oz./ 91 g

Matchstiq Z3u

- 45M – 6GHz
- 50 MHz
- 60 dB
- 2 Rx/ 1Tx
- USB
- 12 bit
- *4.5 W*
- 8 dB NF

GPS ✓

5.6 oz./ 160 g

NEW Matchstiq Z4

- 10M – 6GHz
- 50 MHz
- 70 dB
- 4 Rx/ 4Tx
- USB
- 16 bit
- *10-20 W*
- 8 dB NF

GPS ✓

1.2 lb./ 550 g

Platforms

High-Performance Streaming, no CPU

Sidekiq NV800

- 10M – 6GHz
- 50 MHz
- 75 dB
- **8** Rx/ 1Tx
- Ethernet
- **16** bit
- *25 W*
- 7 dB NF

GPS ✓

3.7 lb./ 1.7 kg

NEW NDR684

- 1M – 18GHz
- **500** MHz
- 80+ dB
- **4** Rx
- Ethernet
- 14 bit
- *73 W*
- **12 dB NF**

GPS ✕

5.4 lb./ 2.5 kg

NDR364

- 20M – 6GHz
- **125** MHz
- **90** dB
- **4** Rx
- Ethernet
- **16** bit
- *38 W*
- **14 dB NF**

GPS ✓

3.5 lb./ 1.6 kg

NDR318

- **2M** – 6GHz
- 40 MHz
- **90** dB
- **8** Rx
- Ethernet
- 14 bit
- *47 W*
- **10-14 dB NF**

GPS ✓

6.5 lb./ 3 kg

CPU-Enabled

NDR325

- 20M – 6GHz
- **500** MHz
- **90** dB
- **4** Rx
- MAIM
- 14 bit
- *67 W*
- 13 dB NF

GPS ✕

2.2 lb./ 1 kg

NEW Matchstiq V40

- **1**M – **9**GHz
- **2,000** MHz
- 70 dB
- 1 Rx/ 1 Tx[4]
- Ethernet
- 12-**16** bit
- *40 W*
- 8-12 dB NF

GPS ✓

2.2 lb./ 1 kg

CPU/ GPU-Enabled

Matchstiq G20 Matchstiq G40

- 10M – 6GHz
- 50 MHz
- 75 dB
- **4** Rx/ **4** Tx[3]
- Ethernet
- **16** bit
- *25/ 30 W*
- **5 dB NF**

GPS ✓

2 lb./ 0.9 kg

Matchstiq X40

- **1M** - 6/**18**GHz
- **450** MHz
- 75 dB
- **4** Rx/ 2/1 Tx
- Ethernet
- **16** bit
- *50/ 65 W*
- **12 dB NF**

GPS ✓

2.6 lb./ 1.2 kg

High-Performance Rackmount

High-Performance Streaming, no CPU

NDR358

- 20M – 6GHz
- 80 MHz
- **90** dB
- **8** Rx
- Ethernet
- 16 bit
- *145 W*
- 14 dB NF

GPS ✕

22 lb./ 10 kg

NDR818

- **2**M – 6GHz
- 40 MHz
- **90** dB
- **8** Rx
- Ethernet
- 14 bit
- *47 W*
- 10-14 dB NF

GPS ✕

22 lb./ 10 kg

NDR551

- 20M – **18**GHz
- 80 MHz
- **90** dB
- **4** Rx
- Ethernet
- **16** bit
- *175 W*
- 16 dB NF

GPS ✕

23 lb./ 10.4 kg

NDR562

- 20M – **18**GHz
- **500** MHz
- **90** dB
- 1 Rx
- Ethernet
- **16** bit
- *100 W*
- 16 dB NF

GPS ✕

22 lb./ 10 kg

NDR888

- 20M – **18**GHz
- **500** MHz
- **90** dB
- **8** Rx (4 option)
- RF
- (no bits)
- *48 W*
- 15 dB NF

GPS ✕

17 lb./ 7.7 kg

Key:
- GPS Disciplined Oscillator, yes/no
- Weight
- Fmin - Fmax, Hz
- Max IBW, MHz, might combine channels
- SFDR, dB
- Max Rx/ Max Tx channels, usually not simultaneously
- Signal output interface
- **Rx bits**
- *Power consumption, typ.*
- NF = noise figure

CPU = Available processor capable of running Linux etc. for customer use. [3] G20: 2 Rx/ 2 Tx & SSD [4] Receiver channel has flexible channelization