

OEM-PA Flat

Customize Your Solution!

PULSER

| | |
|---------------------------------|---------------------------|
| Pulse Voltage | 145 V |
| Pulse Type | Negative Square |
| Pulse Width | 10~1000 ns |
| Pulse Width Resolution | 4 ns |
| Pulse Focusing Delay | 0~40 µs |
| Pulse Focusing Delay Resolution | 4 ns |
| Maximum PRF | 20 kHz (higher in option) |

RECEIVER

| | |
|---------------------------|--|
| Receiver Sensitivity | 550 mV |
| Receiver Gain Range | 16~110 dB |
| Receiver Bandwidth | 384 kHz to 20 MHz |
| Receiver DAC (digital) | 80 dB, Up to 64 Points with Linear Interpolation |
| Receiver Focusing Delay | 0~40 µs |
| Focusing Delay Resolution | 5 ns |
| DDF | Up to 64 points |

GATES

| | |
|-------------------------------------|--|
| Number of Gates | 4 |
| Interface Echo Tracking (see below) | Yes |
| Synchronization (same cycle) | Yes |
| Synchronization (other cycle) | Yes |
| Mode | Max, Min, ABS, Zero before, Zero after |

COMMUNICATION ¹

| | |
|---------------------------------|---------|
| LAN (1000 BT, Gigabit Ethernet) | 10 MB/s |
|---------------------------------|---------|

¹ The maximum data rate can vary according to the PC, the OS setting, and the software environment.



OEM-PA Flat 32/128

Advanced Phased Array

- Compact One Board Form Factor
- Open Platform for Easy Integration
- Unbeatable Prices

SIGNAL PROCESSING

| | |
|----------------------------|--|
| FIR Filter | Up to 64 taps |
| Different Filter per Cycle | Choose from 15 user defined filters |
| A-Scan Sampling | 100 MHz |
| Decimation | 50 MHz, 33, 25, 16.65, 14.28, 12.5,... |
| Compression | Yes |
| A-Scan Video | Yes |
| Acquire All A-Scans | Yes |
| A-Scan Length | 32 KB |
| Rectification | Yes |

SYSTEM

| | |
|--------------------------------|--|
| Configurations | 16/16, 16/128 32/32, 32/128, 2048 (Optional 4096) |
| Max Number of Cycles | 2048 (Optional 4096) |
| A-Scan Resolution | 8, 12, 16 bits |
| A-Scan Mode | Lin, Log |
| Dimension | 200 x 140 x 23 mm ³ for bare electronics with heat sink Starting at 380 g for bare electronics |
| Weight | Yes |
| Temperature Sensors | Yes |
| Open Source SDK | Yes (Fully Documented API) |
| Software Languages | C++, C#, LabVIEW, MATLAB, and more |
| Power Consumption ² | |
| 16/16 | 16.5 W |
| 32/128 | 28 W |

² Measured at a 2 kHz PRF with a 5 MHz probe with all channels enabled

I/O MANAGEMENT

| | |
|-----------------|---|
| Encoders | X, Y |
| Encoder Modes | Quadrature, Quadrature4edges, Direction Count, Forward Backward |
| Synch In | Pulse Trig, Sequence Trig, Encoders |
| Synch Out | Pulse trig, Sequence Trig, Output |
| TimeStamps | Yes (Position and Line Speed) |
| Pin Assignments | Programmable |
| Number I/O | 6 Inputs, 6 Outputs |