IP65/IP68 PAUT and Advanced TFM Solution

Fast Data Throughput

up to 200 MB/s

Up to

100 m
between unit and the PC

High Bandwidth

50 kHz to 20 MHz

Pulser

Pulse Voltage	100 V to 150 V*
Pulse Type	Negative Square
Pulse Width	20~1000 ns (lower frequency in option)
Pulse Width Resolution	4 ns
Pulse Focusing Delay	0~40 µs
Pulse Focusing Delay Resolution	4 ns
Maximum PRF	20 kHz

Receiver

Receiver Sensitivity	14 bits
Receiver Gain Range	12~110 dB
Receiver Bandwidth	50 kHz to 20 MHz
Receiver Focusing Delay	0~40 µs at 100 MHz
Focusing Delay Resolution	5 ns
DDF	Up to 64 points

Communication[1]

LAN (1000 BT, Gigabit Ethernet)	From 100 to 200 MB/s**

[1] The maximum data rate can vary according to the PC, the OS setting and the software environment.
 *Function of the number of channels
** Concerned 128/128

Explorer VR 64/128

Explorer 64/256

Explorer 64/128

Acquisition

FIR Filter	Up to 64 taps
Different Filter per Cycle	Choose from 15 User Defined Filters
A-Scan Sampling	100 MHz
Decimation	50, 33, 25, 16.65, 14.28, 12.5 MHz...
Acquire All A-Scans	Yes
A-scan length (beam former)	16 k Points
Max Number of Cycles	4096 Cycles
FMC option	Yes
A-Scan Length	4096 points in FMC Mode

System

Dimensions and weight	Explorer: 200x130x43 mm, <1.7 Kg Explorer VR: 245x130x45 mm, <1.7 Kg Explorer 64/256: 240x130x75 mm, <2 Kg
Number of Channels (Configurations)	16/16, 16/64, 16/128, 16/256, 32/32, 32/128, 32/256, 64/64, 64/128, 64/256, 128/128
Max Number of Cycles	4096
Number of Sub-Cycles	128
A-Scan Resolution	8, 16 bits
Temperature Sensors	Yes
Open Source SDK	Yes (Fully Documented API)
Software Languages	C++, C#, LabVIEW, MATLAB, Python and more
Operating Systems	Windows, Linux
Full-Matrix Capture	Yes (Standard), all FMC modes available
3D Focal Law Calculator for Matrix PA	Yes (Optional Upgrade)
High Level API	Including TFM Toolbox, Real time acquisition & display

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