Main Features

- Up to 64 full parallel channel per rack (4x16; 2x32; 1x64).
- All channels driven with the same standard software, API and SDK, allowing numerous arrangements:
  - 1 Rack: 4x16, 2x32, 1x64
  - 2 Racks: 8x16, 4x32, 2x64, 1x128
  - 4 Racks: 16x16, 8x32, 4x64, 2x128, 1x256
  - Ability to drive more racks (i.e.: Channels) on request
- Transmission of multiple oriented and/or focused beams in one single shot through all type of multi-element array probes. Linear, Bi-linear* and matrix.
- Real time data processing and multi A-Scan display.
- Linear & sectorial scanning with single or multiple beams.
- Compatible with « active* » type probes embedding electronics: pulser, preamplifier, multiplexer.
- I/O: 8 analog & 9 digital outputs per card - Up to 16 cards per rack.
- Gigabit data transfer: 500Mb/s.
- Software development kit included with source code.

*For more details, please contact us on www.socomate.com
### MAIN SPECIFICATIONS

#### HARDWARE
- **A-SCAN DISPLAY**
  - Industrial PC rack 19" - 6U. Including: Specific power supply for FAAST II linear transmitters, FRB connector for multi-element probes and up to 16 UT PCI cards (Ref: USPCCFAAST II). Consumption per 64CH rack: 1 kVA. Operating temperature: 0° to 40°C (32° to 104°F).

- **DATA PROCESSING**
  - PCI bus master mode data transfer to the DLL. Real time A, B & C-Scan data acquisition at 500Mb/s via gigabit ethernet.

#### LINEAR TRANSMITTERS
- Single shot multi-directional transmitter and arbitrary waveform generator per channel. Delay resolution: up to 1 ns. Probe frequency range: 0.5 - 15MHz. Max amplitude: 80Vpp (50 Ohms). Max PRF: 20kHz.

#### RECEIVERS
- **DATA TRANSFER**

- **SOFTWARE & SDK**

#### GATES
- **FLAW IN-LINE**
  - Flaw alarm: Positive/ Negative. Noise suppression: 0 to 250 violations. Flaw mode: Max. or first echo peak amplitude on Gates 1 & 2. Amplitude resolution: 1% FSH.

- **TOF/ Wall Thickness In-line**
  - Alarms: Min. & Max; Noise suppression: 0 to 30 violations. Mode: First echo on Gate IF and Max. or first echo on Gates 1 & 2. Origins: Peak, flank, zero crossing. Gating mode: HW+, HW-, FW & RF. WT Data process (DSP): Upper & lower limits, Max deviation, filtering, averaging, etc...

- **A-SCAN DISPLAY**
  - Mode: HW+, HW-, FW & RF. Gates: Yellow (IF). Red (G1) & Blue (G2). DAC Curve: 0% to 70% FSH (0-70dB). Delay: 0 to 665 µs/ 20 ns step Range: 1 µs to 1.3 ms/ 20 ns step Trigger: Initial pulse/ Gate 1 Start/ Gate 2 Start/ Gate 1 Trigger/ Gate 2 Trigger. Displayed peak: Snapshot or Max. peak. Velocity: Interface and material A-Scan length: 100 to 512 points. Acquisition mode: Free running or external. Angle beam trigonometry. Distance & depth. Units: µs/mm/ inch/ composite Ply resolution. Moving averaging: on 1/ 2/ 4/ 8/ 16 A-Scan.

- **FAAST SOFTWARE TOOLS:**

#### STANDARDS & APPROVALS

Socmate International maintains the right to modify the specification of their equipments, at any time and in whatever manner, in order to improve their performances.