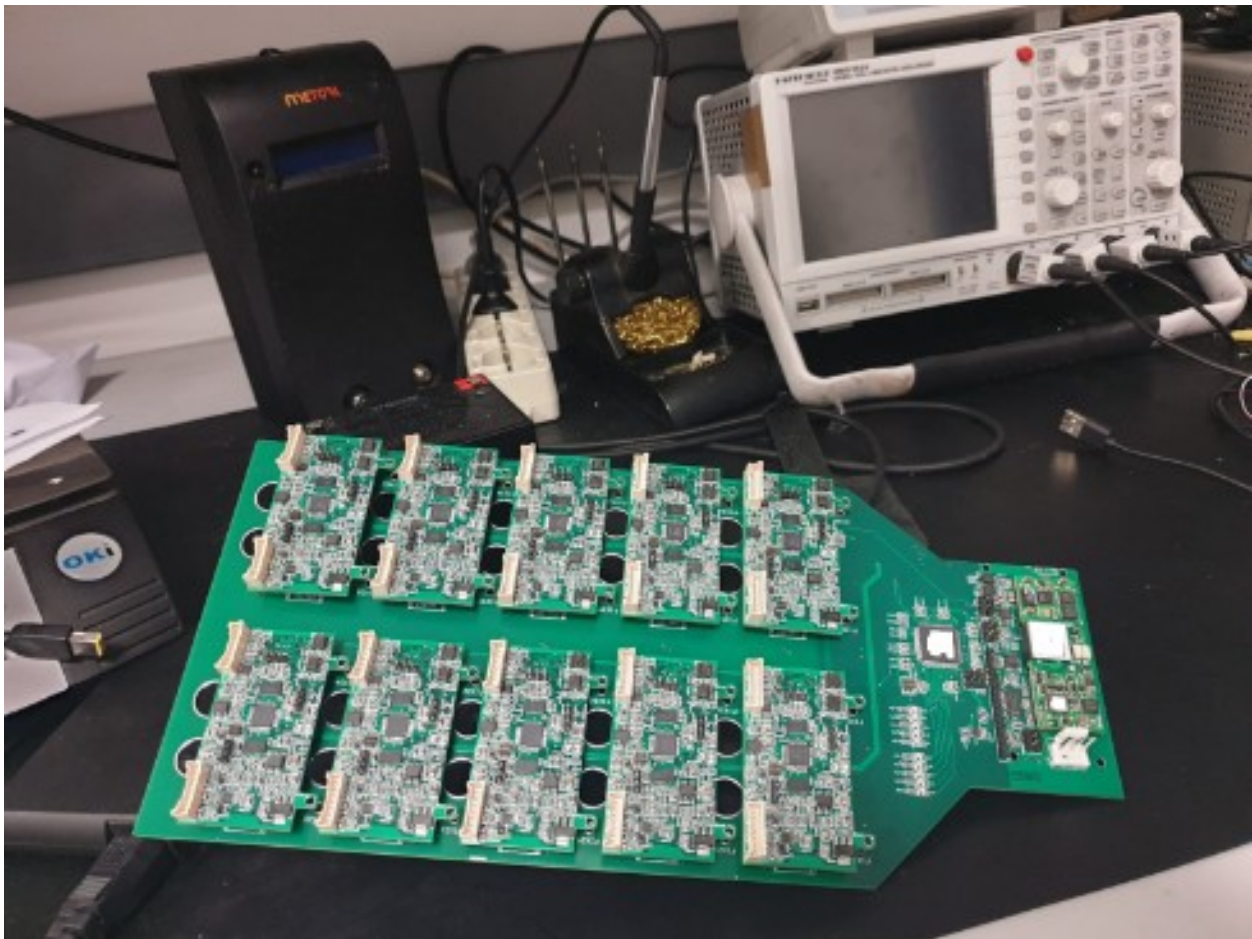




Super Strain Gauge Front End System

Information sheet, Andrea M. Di Lellis

S2G-Technologies Srl in partnership with AMDL is glad to announce that the ultimate front end processing system for industrial weighting of multi hopper heads has been manufactured and ready to be integrated in demanding mechanical noisy industrial production contexts.

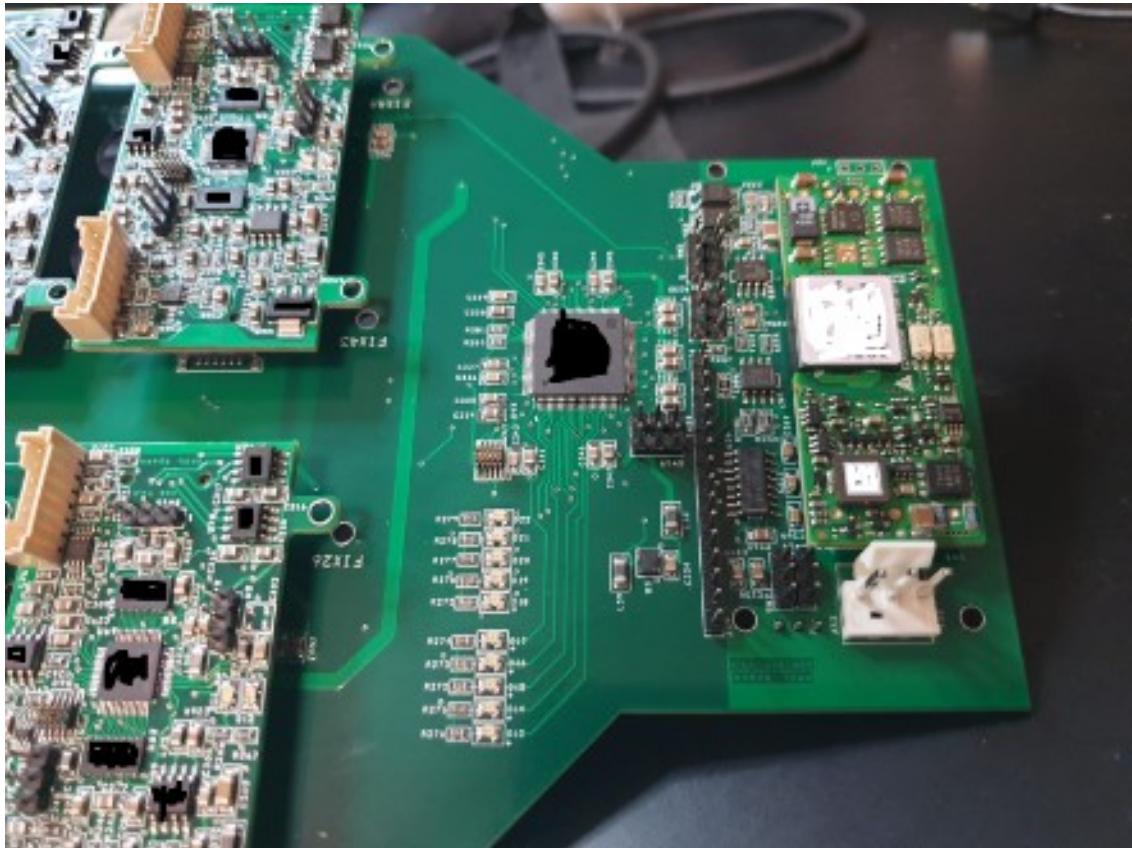


This system is at the third generation and it has further improved the previous generations performances. In a nutshell it offers:

- *Support of up to 20 independent Strain Gauges (e.g. PW4MC3, PW6C Single point load HBM models etc.) simultaneously measured each at 1 Mega Sample per second.*



- Support of up to 10 double Strain Gauges couples as inertial platforms simultaneously measured each at 1 Mega Sample per second, for mechanical noise cancellation.
- System base on 11 super synchronized FPGAs, simultaneous clocked to allow noise cancellation of correlated noise sources down to nanosecond level.



- All internal communication galvanic insulated down to each front end cell proximity electronics.
- System demonstrated to weight in noisy mechanical environment 150g hoppers with only 2 milligrams of sigma.
- 24 Bits sampling resolution released per channel per microsecond. Data Decimation by local filtering down to milliseconds by local Averaging, SINC1 SINC2 SINC3 SINC4, SSINC Filters and Bessel 4 poles at system level.