

Production Capability

APAGCoSyst manufactures electronics in a state-of-the-art production facility with the highest standards on quality equipment. In almost all cases, we are single-source suppliers.

Facility

- Pressurisation for dust repulsion
- ESD access control
- ESD flooring
- Temperature & humidity controlled production zone
- Pressurised, temperature & humidity controlled warehouse
- Paternoster vertical component storage tower connected to inter-locking traceability system and production planning system
- ESD and clean clothing and footwear
- Safe, ergonomically optimised, comfortable working environment



Technology

- **SMT:** 3 high-speed equivalent lines with no manual handling, LASER DMX coding, Fuji NXT II & NXT III pick & place machines, 10 zone Rehm nitrogen-assisted reflow ovens, Closed loop Koh Young 3D SPI, In-line Viscomm AOI, X-ray for BGA production
- **Depanelling:** Milling & V-cut technology, Separated milling room with independent vacuum cleaning for dust protection
- **THT:** Press pin technology: Tyco action pin & Autosplice, Selective, selective flux wave, robotic, and manual soldering, Custom project-specific line design
- **Finishing:** Silicone potting, Conformal coating/varnishing with reflow curing, Mechanical housing/harness assembly
- **Testing:** 100 % AOI (automated optical inspection), 100 % ICT (in-circuit test), 100 % FUT (functional test), 100 % ECT (end-control test)

Quality

- 100% component level traceability integrated via equipment software, plant-wide traceability system & corporate ERP
- Inter-locking process system (does not allow forward steps unless prior steps are completed above the accepted quality level)
- Certified ISO 14001, ISO 9001 and ISO/TS 16949
- PPM historically below 20