

Case Review: GAI-Tronics TSL Product: SDIO IrDA Card for MC70



TSL's SDIO IrDA Card Helps GAI-Tronics maintain England's 6500+ Emergency Roadside Telephones

Client

- + GAI-Tronics (A Division of Hubbell Limited)
- + Staffordshire, UK
- + Rugged Communications

Context

The Highways Agency's newly designed type 354 ERT (Emergency Roadside Telephone) signaled the replacement of England's 6500+ ERT's. Produced by GAI-Tronics, the new ERT's are maintained through the ERT's integrated SDIO IrDA card.

Challenge

With 6500+ ERT units nationwide requiring regular maintenance and service, GAI-Tronics required an interfacing device that was reliable, affordable and effective.

Response/Feedback

"We use the IRDA device as an integral part of the telephone to provide a link to an Engineer's terminal, which allows us to perform diagnostics on the telephone and to update the software it contains"

Roger Goodall, Commercial Manager, GAI-Tronics



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Outline/Summary of solution

- + GAI-Tronics produce and maintain England's new Type 354 Emergency Roadside Telephones (ERT's)
- + The development of the type 354 ERT included the parallel development of several supporting sub-systems
- + Regular ERT maintenance and service is carried out by engineers, using Engineer's Terminals (ET's) a link can be established with the ERT, equipped with TSL's 1061 SDIO IrDA Card

Solution

In partnership with TSL, GAI-Tronics utilize the 1061 SDIO IrDA card as a part of their ERT setup. This provides a fast, wireless connection used to upload software, configuration parameters and collect fault logs.



Result

The introduction of the Type 354 ERT demanded a new set of supporting sub-systems. By utilizing TSL's 1062 SDIO IrDA card, engineers can update, check and service ERT's on the spot, saving time and minimizing system cost.



+ About TSL

TSL designs and manufactures both standard and custom embedded, snap on and standalone peripherals for handheld computer terminals. Embedded technologies include:

- GPS
- RFID – Low Frequency, High Frequency and UHF
- GPRS/GSM
- IrDA
- Contact Smartcard
- Fingerprint Biometrics
- 1D and 2D Barcode Scanning
- Bluetooth
- 802.11 WiFi
- Magnetic Card Readers
- OCR – B and ePassport

Utilizing class leading Industrial design, TSL develops products from concept through to high volume manufacture for Blue Chip companies around the world. Using the above technologies TSL develops innovative products in a timely and cost effective manner for a broad range of handheld devices.

Telephone: +44 (0)1509 238248
Fax: +44 (0)1509 220020

Postal Address: Technology Solutions (UK) Limited,
Suite C, Loughborough Technology Centre,
Epinal Way,
Loughborough,
Leicestershire,
LE11 3GE.
United Kingdom.

Email: enquiries@tsl.uk.com



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