

# Burnside T940 Series Fixed Cellular Terminals

- Quadband GSM—worldwide phone, SMS & Internet.
- Lower install & call costs than landlines
- Simple mobile phone menu—easier to install and use than other FCTs
- Shareable & permanent resource that anyone can use
- Less vulnerable to damage or theft
- External antenna—works in areas where handhelds don't work
- Reduced radiation risk
- Supports many types of phone, PBX or PC
- Remote monitoring & control of attached equipment
- Landline & GSM-R (railway) versions
- Designed and made in the UK



## Description

The T940 series of fixed cellular terminals [FCTs] provide instant access to voice & data communications in any location within the worldwide GSM cellular wireless network without the delay and expense associated with connection to landline networks. A wide variety of phones, PBXs and PCs can be connected. New sharing and inclusive call minute tariffs offer lower call costs than landline tariffs. Echo cancellation and noise reduction technology offer landline speech quality. The plain language menu on the display on the T940 series makes it easier to install and operate than other makes of fixed cellular terminal. A variety of firmware options offer functionality and lower call costs not available on other products.

Unlike handheld mobile phones the T940 provides an easier to use, shareable and permanent resource that is less vulnerable to damage or theft. External antenna connection keeps the T940 working in locations where handhelds fail to work and reduce any possible radiation risk to the user.

## Available Versions

### T940

The entry level T940 is the choice for those who require an easy to use terminal that provides connectivity over the mobile network. To learn more about T940 and its many applications see document 362xxx [T940L](#)

Unlike the T940, the T40L also offers connection to PSTN landline networks. Its least cost routing feature can reduce call costs by automatically routing calls to mobiles via the cellular network and all other calls via the landline connection. The optional Follow Me firmware package eliminates expensive call divert ser-

vices on landline networks by forwarding incoming landline calls directly onto the mobile network. To learn more about the T940L and its many applications see document T940L 362 000 and Follow Me 362055 [T940-R](#)

A GSM-R [railway] version is available as a replacement for existing incompatible in-track cable and analogue railway radio networks. Under a European directive all railway routes in Europe being built, upgraded or renewed are to specify GSM-R voice and data radio. To learn more about the Burnside's GSM-R products see leaflet 362000.

### Inclusive Call Minute Timer

Available on all versions this firmware can keep track of number of minutes used on an inclusive call minute tariff. When the limit is reached it can send an SMS to the user and switch itself off to avoid incurring expensive minutes.

### DTMF over GSM

Dual tone multi frequency signals over GSM networks are vulnerable to errors. This firmware loaded on terminals at both ends of a GSM link provide error free transmission.

### About Burnside

Burnside Telecom is a designer and manufacturer of innovative fixed cellular terminals, desktop and wall mounted mobile phones and modems for voice, SMS text, Internet and e-mail access. Its products are now in use in 19 countries throughout the world. Customers include mobile network operators, government departments, local authorities, police and multi-national companies.

## T940 FCT Series Specification

Parameter	Specification
GSM Bands	Quad 850/900/1800/1900 MHz
Data	USB 2; GPRS class 10@ max 86kbps PBCCH support CSD up to 14.4 kbps USSD support Cellular Text Modem 45.5bps TTY support
SMS	Point to point MO and MT; SMS cell broadcast; Text & PDU mode
Fax via Data	Group 3, class 2 and class 1
Speech	HR, FR, EFR & AMR codec; hands free; echo cancellation
User Interface	1. Phone Book; 2 SMS; 3. Call Register; 4. Divert & Forward; 5. Settings; 6. Special Functions; 8. Help; 9. Outgoing Call Routing (T940L only).
Firmware Options	Inclusive call minute timer; DTMF over Cellular Text Modem Channel; Follow Me T940L only; Least Cost Routing Table T940L only
Phone/PBX—FXS	RJ11 socket; POTS, DC loop current 25mA off hook; ringing signal 25Hz trapezoidal (40V RMS); ringing load 3 REN; CLIP UK SIN227, DTMF, ETSI or Bellcore.
PSTN—FXO T940L Only	RJ11 Socket; On/Off hook indication; loop closure.
Call Control	Line Reversal; Loop Disconnect; Progress Tones
Antenna	Omnidirectional Quadband Mag Base 2m FME Female.
Telemetry I/O	3.5mm dual channel socket; Channel 1 logic level input or output; Channel 2 input only, logic level or trigger programmable 0-5VDC; remote monitoring and control of terminal and attached devices by SMS
AC Adapter	5.5mm ext x 2.5mm int x 10mm long socket; 8-32VDC; UK, EU, US & AU Adapters
Battery Option	Lithium Cells; typical 24/4 standby/talk time hours
SIM Access	Retracting carrier for 3V mini SIM card
Casing Material	Anodised aluminium and ABS end caps
Size/Weight	148mm x 210mm x 43mm; 550gm excluding accessories
Temperature/ Humidity Range	Normal mains operation: -20C to +70C Internal backup battery powered: 0C to +40C Auto switch off: <-40C and >+70C In storage: -40C to +85C Humidity 0-95% non-condensing
Approvals	R&TTE, FCC, UL, IC, GCF, PTCRB, CE Local approvals & network operator certifications RoHS compliant WEEE Registered AC0075UR/PRO




## T940 FCT Series Firmware Options

Item	Model	Description
763004	All	Inclusive Call Minute Timer
763009	All	Error Free DTMF
763001	T940L	Follow Me
763007	T940L	Least Cost Routing Table

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## T940 FCT Series Hardware Accessories

Item	Description	Image
268005	Quadband Marine Antenna. VSWR: <1.5:1 Height: 0.15m RG58 FME-F	
268002	890-960Mhz YAGI 10m RG58 FME-F	
268003	1710-1880 Mhz YAGI 10m RG58 FME-F	
222003	Wall mount bracket	
778005	Internal Uninterruptible Power Supply	

## T940 FCT Series Models/Region Kit Order Code

Model	PSTN	GSM-R	Region			
			UK	EU	US	AU
T940	✗	✗	722064	722060		
T940L	✓	✗	722065	722061		
T940R	✗	✓	722066	722062		

## T940 FCT UK Pack Contents Item 722064

Item	Description
328009	T940 Quadband GRPS Fixed Cellular Terminal
778001	AC Adapter UK
268001	Omnidirectional Mag Base Antenna 2m cable FME-F
225004	BT Modular Plug to RJ11 Socket Adapter
362075	T940 User Guide

## Related Documents

Item	Description
328009	T940 Series User Guide
362xxx	T940L Sales Leaflet
362001	T940R Sales Leaflet
225004	T940L Quick Start Guide
362001	Follow Me Leaflet
362xxx	DTMF over GSM
362075	Burnside Product Range

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