

Technical Note TN-635

- 1. TOP Elan Trunked New V3.10 Firmware
- TOP Excel Trunked New V3.10 Firmware

8 September 2000

1. TOP Elan Trunked V3.10 Firmware

Applicability Software changes to TOP Elan Trunked have been made, resulting in the

release of a new version of enhanced radio firmware, V3.10. This firmware will be used in all future productions of TOP Elan Trunked

Radios.

Serial Number V3.10 will be included into all Elans manufactured after S/N **14069811**.

1.1 New features available Elan V3.10 Firmware

Feature	Description	Impact on
		Customer
User Selectable group	Group 99 can now be assigned and operated as	Minor
99	User Selectable	improvement
Network operator	Stop the Elan from making Network operator	Minor
restricted calls 112 -	restricted calls 112 - 119 (as per MPT 1343	improvement
119	spec)	

1.2 Compatibility of Elan V3.10 Firmware

The recommended PC software products that meet the compatibility criteria are Orca programming software V1.25 or greater and Orca calibration software V2.02 or greater.

This product is compatible with the following software products:

- Orca Programming Software capable of programming trunk radio software with main database version 1.07
- Orca Calibration Software capable of programming trunk radio software with main database version 1.06 and calibration database 1.00
- Orca DSP software version 1.06
- Tait Orca Elan/Excel Users Manual: IPN 409-00120-02

K band UHF	Orca PCB 900 MHz Main Radio Board variant 02:	IPN 220-01610-02
	Orca PCB 900 MHz Main Radio Board variant 02:	IPN 220-01610-03
UHF	Orca PCB UHF Main Radio Board variant 06:	IPN 220-01392-06
	Orca PCB UHF Main Radio Board variant 07:	IPN 220-01392-07
	Orca PCB UHF Main Radio Board variant 08:	IPN 220-01392-08
	Orca PCB UHF Main Radio Board variant 09:	IPN 220-01392-09
	Orca PCB UHF Main Radio Board variant 10:	IPN 220-01392-10
	Orca PCB UHF Main Radio Board variant 11:	IPN 220-01392-11
	Orca PCB UHF Main Radio Board variant 11:	IPN 220-01603-04
	Orca PCB UHF Main Radio Board variant 11:	IPN 220-01603-05
	Orca PCB UHF Main Radio Board variant 11:	IPN 220-01624-02
	Orca PCB UHF Main Radio Board variant 11:	IPN 220-01624-03
G band UHF	Orca PCB sub-UHF Main Radio Board variant 01:	IPN 220-01503-01
	Orca PCB sub-UHF Main Radio Board variant 02:	IPN 220-01503-02
	Orca PCB sub-UHF Main Radio Board variant 03:	IPN 220-01503-03
	Orca PCB sub-UHF Main Radio Board variant 04:	IPN 220-01503-04
	Orca PCB sub-UHF Main Radio Board variant 04:	IPN 220-01503-05
	Orca PCB sub-UHF Main Radio Board variant 04:	IPN 220-01503-06
VHF	Orca PCB VHF Main Radio Board variant 04:	IPN 220-01401-04
	Orca PCB VHF Main Radio Board variant 03:	IPN 220-01588-03
	Orca PCB VHF Main Radio Board variant 03:	IPN 220-01588-04

 $\underline{\text{NB}}$ This firmware should be compatible with the 66 - 88 MHz and 800 MHz radio PCB.

1.3 Known issues remaining with V3.10 Firmware

Feature	Description	Impact on Customer
Conventional	When radio is used in conventional mode, and	Irritation to
Channel problem	the user transmits while the carrier is present,	conventional channel
	then there will be no modulation on the carrier	users.
	from the user until PTT is re-keyed.	
Invalid	The radio will not give any indicator when an	Irritation to
conventional	invalid conventional channel is selected	conventional channel
channel indicator		users.

2. TOP Excel Trunked V3.10 Firmware

Applicability Software changes to TOP Excel Trunked have been made, resulting in

the release of a new version of enhanced radio firmware, V3.10. This firmware will be used in all future productions of TOP Excel Trunked

Radios.

Serial Number V3.10 will be included into all Excels manufactured after S/N **14068802**.

2.1 New features available V3.10 firmware

Feature	Description	Impact on
		Customer
Multiple Networks	Three networks are fully supported	Excellent
User Selectable group	Group 99 can now be assigned and operated as	Minor
99	User Selectable	improvement
DTMF Interdigit hold	Reliable operation can now be achieved below	Minor
time	800mS (60mS tested)	improvement
Network operator	Stop the Excel from making Network operator	Minor
restricted calls 112 -	restricted calls 112 - 119 (as per MPT 1343	improvement
119	spec)	

2.2 Compatibility of V3.10 firmware

The recommended PC software products that meet the compatibility criteria are Orca programming software V1.25 (only one network) and windows V2.0.0 (multiple networks). Orca calibration software DOS V2.02 and windows V2.0.0.

This product is compatible with the following software products:

- Orca Programming Software capable of programming trunk radio software with main database version 1.07
- Orca Calibration Software capable of programming trunk radio software with main database version 1.06 and calibration database 1.00
- Orca DSP software version 1.06
- Tait Orca Elan/Excel Users Manual: IPN 409-00220-02

K band UHF	Orca PCB 900 MHz Main Radio Board variant 02:	IPN 220-01610-02
	Orca PCB 900 MHz Main Radio Board variant 02:	IPN 220-01610-03
UHF	Orca PCB UHF Main Radio Board variant 06:	IPN 220-01392-06
	Orca PCB UHF Main Radio Board variant 07:	IPN 220-01392-07
	Orca PCB UHF Main Radio Board variant 08:	IPN 220-01392-08
	Orca PCB UHF Main Radio Board variant 09:	IPN 220-01392-09
	Orca PCB UHF Main Radio Board variant 10:	IPN 220-01392-10
	Orca PCB UHF Main Radio Board variant 11:	IPN 220-01392-11
	Orca PCB UHF Main Radio Board variant 11:	IPN 220-01603-04
	Orca PCB UHF Main Radio Board variant 11:	IPN 220-01603-05
	Orca PCB UHF Main Radio Board variant 11:	IPN 220-01624-02
	Orca PCB UHF Main Radio Board variant 11:	IPN 220-01624-03
G band UHF	Orca PCB sub-UHF Main Radio Board variant 01:	IPN 220-01503-01
	Orca PCB sub-UHF Main Radio Board variant 02:	IPN 220-01503-02
	Orca PCB sub-UHF Main Radio Board variant 03:	IPN 220-01503-03
	Orca PCB sub-UHF Main Radio Board variant 04:	IPN 220-01503-04
	Orca PCB sub-UHF Main Radio Board variant 04:	IPN 220-01503-05
	Orca PCB sub-UHF Main Radio Board variant 04:	IPN 220-01503-06
VHF	Orca PCB VHF Main Radio Board variant 04:	IPN 220-01401-04
	Orca PCB VHF Main Radio Board variant 03:	IPN 220-01588-03
	Orca PCB VHF Main Radio Board variant 03:	IPN 220-01588-04

 $\underline{\text{NB}}$ This firmware should be compatible with the 66 - 88 MHz and 800 MHz radio PCB.

2.3 Known issues remaining with V3.10 firmware

Issue	Description	Impact on
		Customer
Dynamic	Dynamic regroup interrogation does not work.	Partial functionality.
Regroup	Also dynamic regroup will not work when more	Customer
	than 8 groups are defined.	notification
		necessary.
Conventional	When radio is used in conventional mode, and the	Irritation to
Channel	user transmits while the carrier is present, then	conventional channel
problem	there will be no modulation on the carrier from the	users.
	user until PTT is re-keyed.	
User selectable	This feature does not support MPT 1343 Interfleet	Minor irritation
groups	groups	
Battery	Radio resets cyclically when switched on with low	Irritation. Customer
management	batt and low battery power does not turn radio off	education required
problems	while on Tx	
Knob position	Radio might change operational mode after invalid	Minimal. Customer
may override	user action to actual knob position rather than	education required
on an invalid	staying in most recent mode as defined via the	(change operational
user action	keypad	mode using knob not
		keypad)
RSSI	RSSI indicators stay on when transmitting in	Minor irritation
Indicators	conventional mode	

Invalid	The radio will not give any indicator when an	Irritation to
conventional	invalid conventional channel is selected	conventional channel
channel		users.
indicator		

Note to CSO's

Please ensure that all external customers and internal logistical personal are aware of the change in required programming software. This Firmware is available from www.taitworld.com

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