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www.danelec.com



MT-4E New Product Announcement / Replacement

May 30, 2006

Synopsis

Effective September 1, 2006 Daniels Electronics will begin commercial shipment of the MT-4E radio, a new radio platform for both digital P25 radios as well as analog LMR radios. With the introduction of the MT-4E radios, Daniels will be superseding the MT-4D Digital P25 Radio, the MT-3 Low Current and the MT-3 Enhanced Analog Radios with the MT-4E platform. This notice serves as a last time buy opportunity before these products are discontinued December 30, 2006. Daniels Paging products, Low Band, 800 & 900 MHz and AM Aviation band radios are not affected by this announcement.

MT-4E Capabilities

The MT-4E radio (transmitter shown to the right) is a high performance, low current FM radio capable of P25 digital or analog operation in 12.5 KHz (narrowband) or 25 KHz (wideband) channels. The MT-4E is available in the frequency bands: 136-174 MHz and 406-470 MHz. 470-512 MHz will be supported by the end of 2006 and 380-406 MHz is planned for 2007.

Daniels MT-4E radios support either repeater or base station configurations. When used in base station applications they will receive clear or secure (encrypted) P25 and analog voice radio communications. When used in repeater applications they will repeat clear or secure (encrypted) P25 and analog voice radio communications. P25 operation is supported via a purchasable P25 firmware option and secure mode operation is available via optional encryption modules.

The MT-4E provides new product functionality compared with the MT-3 and MT-4D:

- Extended UHF frequency band: 380 – 512 MHz (see above)
- 700 / 800 MHz support: 700 – 960 MHz – planned for 2007
- Flashable firmware via a USB interface
- Purchasable firmware upgrade from analog only to P25 digital (analog, mixed mode, digital clear and secure)

The MT-4E provides all the capabilities supported by the MT-4D radios, the MT-3 Low Current Analog radios and the MT-3 Enhanced Analog Radios. Both Analog only and P25 (Digital, Clear or Secure, Mixed Mode and Analog) functionality are supported on the MT-4E platform with the appropriate selection of firmware. The MT-4E is compatible with existing Daniels MT-3 and MT-4 modules. For more information on the MT-4E visit, <http://www.danelec.com/products/>



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MT-4E Product Options and Part Numbers

The MT-4E is available in Transmitter and Receiver packages along with the optional P25 firmware and P25 encryption modules as detailed below.

Frequency Band	Product	MT-4E Description	Part Numbers
136-174 MHz	Transmitter	VHF (136-174 MHz) 0.5 - 8 Watt Transmitter, Analog only CAI	VT-4E150-00-800
380-406 MHz	Transmitter	UHF (380-406 MHz) 0.5 - 8 Watt Transmitter, Analog only CAI – (available in 2007)	UT-4E400-00-800
406-470 MHz	Transmitter	UHF (406-470 MHz) 0.5 - 8 Watt Transmitter, Analog only CAI	UT-4E450-00-800
470-512 MHz	Transmitter	UHF (470-512 MHz) 0.5 - 8 Watt Transmitter, Analog only CAI – (available late 2006)	UT-4E500-00-800
136-174 MHz	Receiver	VHF (136-174 MHz) Receiver, Low Current Analog only CAI	VR-4E150-00-000
380-406 MHz	Receiver	UHF (380-406 MHz) Receiver, Low Current Analog only CAI – (available in 2007)	UR-4E400-00-000
406-470 MHz	Receiver	UHF (406-470 MHz) Receiver, Low Current Analog only CAI	UR-4E450-00-000
470-512 MHz	Receiver	UHF (470-512 MHz) Receiver, Low Current Analog only CAI - (available late 2006)	UR-4E500-00-000
136-174 MHz	Receiver	VHF (136-174 MHz) Receiver, Enhanced Analog only CAI	VR-4H150-00-000
380-406 MHz	Receiver	UHF (380-406 MHz) Receiver, Enhanced Analog only CAI – (available in 2007)	UR-4H400-00-000
406-470 MHz	Receiver	UHF (406-470 MHz) Receiver, Enhanced Analog only CAI	UR-4H450-00-000
470-512 MHz	Receiver	UHF (470-512 MHz) Receiver, Enhanced Analog only CAI - (available late 2006)	UR-4H500-00-000
-	Encryption	AES / DE-OFB FIPS 140 compliant encryption module	ENCRYPT-MT-4E-xx
-	Firmware	Optional TX Software Upgrade to support the P25 CAI	APP-FIRM02-W-xx
-	Firmware	Optional RX Software Upgrade to support the P25 CAI	APP-FIRM01-W-xx

Products being Superseded

Daniels will supersede the current MT-4D Digital P25 Radio, the MT-3 Low Current and the MT-3 Enhanced Analog Radios with the MT-4E platform. This notice serves to announce the supersession of the MT-4D, MT-3 Low Current and MT-3 Enhanced radios. Daniels Paging products, Low Band, 800 & 900 MHz and AM Aviation band radios are not affected by this announcement.

Please be advised that effective June 1, 2006 the modules listed in the table below are being manufacture discontinued. These products will not be available to order after July 15, 2006. Daniels Electronics is committed to providing ongoing support for our current product line as well as our discontinued items. For more information please contact the Sales Department at Daniels Electronics sales@danelec.com at the above address, or visit www.danelec.com.

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MT-3 Products – Analog Low Current

Part Number	Description	Replacement MT-4E Part Number	Description
UR-3/420-SNC200	RECEIVER, MT-3,UHF 406-430 MHz	UR-4E450-00-000	MT-4E UHF Receiver
UR-3/420-SWC200	RECEIVER, MT-3,UHF 406-430 MHz		
UR-3/460-SNC200	RECEIVER, MT-3,UHF 450-470 MHz		
UR-3/460-SWC200	RECEIVER, MT-3,UHF 450-470 MHz		
VR-3/140-SNA200	RECEIVER, MT-3,VHF(132-150MHz)	VR-4E150-00-000	MT-4E VHF Receiver
VR-3/140-SWA200	RECEIVER, MT-3,VHF(132-150MHz)		
VR-3/160-SNA200	RECEIVER, MT-3,VHF(150-174MHz)		
VR-3/160-SWA200	RECEIVER, MT-3,VHF(150-174MHz)		
UT-3/420-SXCX00	TRANSMTR, MT-3,UHF 406-430 MHz	UT-4E450-00-800	MT-4E UHF Transmitter
UT-3/460-SXCX00	TRANSMTR, MT-3,UHF 450-470 MHz		
VT3XXXX-SXXXXX	TRANSMTR, MT-3,VHF 132-150 MHz	VT-4E150-00-800	MT-4E VHF Transmitter
VT3XXXX-SXXXXX	TRANSMTR, MT-3,VHF 150-174 MHz		

MT-3 Products – Analog Enhanced

Part Number	Description	Replacement MT-4E Part Number	Description
UR-3H420-SNC200	RECEIVER, MT-3,UHF 406-430 MHz	UR-4H450-00-000	MT-4E UHF Receiver
UR-3H420-SWC200	RECEIVER, MT-3,UHF 406-430 MHz		
UR-3H460-SNC200	RECEIVER, MT-3,UHF 450-470 MHz		
UR-3H460-SWC200	RECEIVER, MT-3,UHF 450-470 MHz		
VR-3H140-SNA200	RECEIVER, MT-3,VHF(132-150MHz)	VR-4H150-00-000	MT-4E VHF Receiver
VR-3H140-SNE200	RECEIVER, MT-3,VHF(132-150MHz)		
VR-3H140-SWA200	RECEIVER, MT-3,VHF(132-150MHz)		
VR-3H140-SWE200	RECEIVER, MT-3,VHF(150-174MHz)		
VR-3H160-SNA200	RECEIVER, MT-3,VHF(150-174MHz)		
VR-3H160-SNE200	RECEIVER, MT-3,VHF(150-174MHz)		
VR-3H160-SWA200	RECEIVER, MT-3,VHF(150-174MHz)		
VR-3H160-SWE200	RECEIVER, MT-3,VHF(150-174MHz)		

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MT-4 Products

Part Number	Description	Replacement MT-4E Part Number	Description	S/W Part Number	P25 Software Description
UR-4D420-B0-000	RECEIVER,P25 BASE,UHF(406-430)	UR-4E450-00-000	MT-4E UHF Receiver	APP-FIRM01-W-xx	P25 RX Software
UR-4D420-B1-000	RECEIVER,P25 BASE,UHF(406-430)				
UR-4D460-B0-000	RECEIVER,P25 BASE,UHF(450-470)				
UR-4D460-B1-000	RECEIVER,P25 BASE,UHF(450-470)				
UR-4D420-R0-000	RECEIVER,P25 RPTR,UHF(406-430)				
UR-4D460-R0-000	RECEIVER,P25 RPTR,UHF(450-470)				
VR-4D150-B0-000	RECEIVER,P25 BASE,VHF(136-174)	VR-4E150-00-000	MT-4E VHF Receiver	APP-FIRM01-W-xx	P25 RX Software
VR-4D150-B1-000	RECEIVER,P25 BASE,VHF(136-174)				
VR-4D150-R0-000	RECEIVER,P25 RPTR,VHF(136-174)				
UT-4D420-B0-X00	TRANSMTR,P25 BASE,UHF(406-430)	UT-4E450-00-800	MT-4E UHF Transmitter	APP-FIRM02-W-xx	P25 TX Firmware
UT-4D420-B1-X00	TRANSMTR,P25 BASE,UHF(406-430)				
UT-4D460-B0-X00	TRANSMTR,P25 BASE,UHF(450-470)				
UT-4D460-B1-X00	TRANSMTR,P25 BASE,UHF(450-470)				
UT-4D420-R0-X00	TRANSMTR,P25 RPTR,UHF(406-430)				
UT-4D460-R0-X00	TRANSMTR,P25 RPTR,UHF(450-470)				
VT-4D140-B0-X00	TRANSMTR,P25 BASE,VHF(136-150)	VT-4E150-00-800	MT-4E VHF Transmitter	APP-FIRM02-W-xx	P25 TX Firmware
VT-4D140-B1-X00	TRANSMTR,P25 BASE,VHF(136-150)				
VT-4D160-B0-X00	TRANSMTR,P25 BASE,VHF(150-174)				
VT-4D160-B1-X00	TRANSMTR,P25 BASE,VHF(150-174)				
VT-4D140-R0-X00	TRANSMTR,P25 RPTR,VHF(136-150)				
VT-4D160-R0-X00	TRANSMTR,P25 RPTR,VHF(150-174)				

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Time Line

For each of the above products, Daniels will offer customers a last buy opportunity in accordance with the following schedule:

Product Milestone	Date
Last Time Buy Date – MT-3 Analog Low Current	July 15, 2006
MT-4D Digital Supercession with MT-4E	September 1, 2006
MT-4E Commercial Introduction (Digital and Analog, VHF / UHF)	September 1, 2006
MT-3 Analog Low Current Supercession with MT-4E	September 1, 2006
Last Time Ship Date – MT-4D Digital	September 30, 2006
Last Time Buy Date – MT-3 Enhanced	October 15, 2006
MT-4E T Band (470-512 MHz) Commercial Introduction (Digital and Analog)	December 15, 2006
Last Time Ship Date – MT-3 Analog Low Current	December 30, 2006
MT-3 Analog Enhanced Supercession with MT-4E	January 1, 2007
Last Time Ship Date – MT-3 Enhanced	March 31, 2007

Daniels Electronics is committed to providing ongoing support for our current product line as well as our discontinued items. For more information please contact the Sales Department at Daniels Electronics sales@danelec.com at the above address, or visit www.danelec.com.

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