

MCS2000 Mobile Series

Conventional Radio Systems

VHF, UHF, 800 MHz & 900 MHz Bands

Date 7/07/03

SUGGESTED RETAIL

General Ordering Information

All mobiles ship standard with speaker, microphone, negative ground power cable, mounting hardware and Quick Start User Guide.

- 1) Order the MCS2000 mobile as a main line item. Dash or Remote Models available. See model pages.
- 2) One antenna option **MUST** be ordered as a sub-item. (see option page)
- 3) The MCS2000 Mobile Series radios are part of the FLASHport Program. This means that MCS2000 models can be loaded with different software packages. Indicate the appropriate System Software Package (H35) as second sub-item. **A System Software Package MUST be ordered for each radio unit ordered.**
- 4) Frequency and squelch information are not required. Orders will be accepted without this information.
- 5) There are no restrictions as to the number of individual decode and encode PL and DPL codes that can be assigned in a radio. PL and DPL codes can be mixed on a mode. MCS2000 does not support unique PL's.
- 6) System Enhanced Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a FLASHport package, Smart RIB, RSS Terminal and RSS package are required for all software upgrades). The MCS2000 mobiles can be upgraded electronically in the field with new features in the current system or to new systems operation (contingent upon utilizing the same RF deck and other hardware limitations) by ordering upgrade kits from the MCS2000 FLASHport Aftermarket upgrade price page which appears later in this section.
- 7) **ANTENNAS: All mobiles MUST INCLUDE AN ANTENNA Option or a NO ANTENNA REQUIRED** G325 option (ordering the B665 control station option the antenna or no antenna options must STILL be ordered).
- 8) Order RSS programming software package if required. (For programming of the radio in the field an IBM 486 (or compatible) computer with 5.0 DOS or higher and 8MB RAM is highly recommended).
- 9) Names and aliases must be programmed via Radio Service Software in the field. All Stat-Alert parameters must be field programmed.

FCC INFORMATION FOR ALL MCS2000 MODELS

Band	Frequency	Power Output	Transmitter Type Acceptance #	Authorized Emission	Applicable Parts of Rules
VHF	136-174 MHz	25W	AZ492FT3791	16K0F3E,11K0F3E,20K0F1E	90
Note: Frequencies 168.000 & 151.200 MHz does not meet Motorola's performance criteria & are not valid programming frequencies.					
VHF	R1 136-162 MHz R2 146-174 MHz	110W	AZ492FT3781	11K6F2D,16K0F3E,13K8F1D,20K0F1E, 11K0F3E	90
UHF	403-450 MHz	25W	AZ492FT4819	16K0F3E,11K0F3E,20K0F1E	90
Note: The UHF Range 1 Low Power model is capable of being programmed via RSS from 403-470 MHz. Any UHF R1 Low Power radio programmed above 450 MHz will have a guaranteed power output of 20 watts.					
UHF	450-512 MHz	20W	AZ492FT4820	16K0F3E,11K0F3E,20K0F1E	90
UHF	450-512 MHz	40W	AZ492FT4825	16K0F3E,11K0F3E,20K0F1E,20K0F1D, 11K0F1D,11K0F2D,16K0F2D	90
Note: The UHF Range 2 40 watt model is capable of meeting a 40 watt power output from 450-494 MHz. Any UHF Range 2 40 watt radios programmed above 494 MHz will have a guaranteed power output of 20 watts.					
UHF	403-470 MHz	110W	AZ492FT4797	16K0F3E,20K0F1D,11K6F2D,11K0F1D, 11K0F3E,20K0F1E	90
800 MHz	806-870 MHz	15W	AZ492FT5765	Emissions are not applicable for bands 821-824 & 866-869 MHz 16K0F3E,16K0F2D,15K0F2D,14K0F1D,14K0F2D, 14K0F3E,20K0F1E,20K0F1E,20K0F1D	90
800 MHz	806-870 MHz	35W	AZ492FT5773	Emissions are not applicable for bands 821-824 & 866-869 MHz 16K0F3E,16K0F2D,11K6F2D,14K0F1D, 14K0F2D,20K0F1E,14K0F3E,20K0F1D	90
900 MHz	896-941 MHz	12W	AZ492FT5766	11K0F1D,11K0F2D,11K0F3E	90
900 MHz	896-941 MHz	30W	AZ492FT5780	11K0F3E,11K0F2D,11K0F1D	90

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The MCS2000 mobile line offers three different radio models. All MCS2000 models include the following features:

- On/Off/Volume Select Rotary Switch
- FLASHport Upgradable
- Dash Mount (Remote Mount standard for all High Power models)
- VRM100 Data Capability (VRM500 RDLAP data requires an option, modem ordered separately) - Models II & Models III Only
- Full Size Palm Microphone
- MIL Std 810 D, E (see Catalog Sheet for applicable tests)
- Radio Service Software Programmable
- Backlit Buttons
- LDC Display
- 800 MHz, NPSPAC (Public Safety) operation (821-824 MHz)
- User Guide (Quick Reference Card)

Notes:

The three models are unique in some of their capabilities. The chart below identifies these differences.

- 1) **Ignition Sense Cable does NOT ship standard. The B113 NO CHARGE option must be ordered.**
- 2) Model I includes an internal 4 watt speaker. Models II and III have a 7.5 watt external speaker with 8 Ft. (2.44m) cable. Model II includes a rotary dial for channel/mode selection. Model III includes an integral numeric/keypad for unlimited call capability. The radio provides a mini-UHF antenna connector. **Antenna selection must be made when placing an order.** (See ordering requirements and options page for details). MCS2000 Accessories meet varying MIL Standard Requirements. For additional information contact Product Services.
- 3) All MCS2000 radios are part of the FLASHport program and ship standard with a FLASH EE PROM, allowing feature upgrades within System Software Packages and upgrades between systems (contingent upon remaining within the same RF deck and memory space available in the mobile).

MODEL SPECIFIC FEATURES			
	<u>Model I</u>	<u>Model II</u>	<u>Model III</u>
Alphanumeric Display	1 X 8	1 X 14	2 X 14
Speaker: 4 Watt Internal	Standard	N/A	N/A
Speaker: 7.5 Watt External	Optional	Standard	Standard
Speaker: 13 Watt External	Optional: with Dash Mount Mobiles Only	Optional	Optional
Emergency with Voice to Follow Req. Visor Mic.-See accessories	N/A	Optional	Optional
Emergency - Conventional	Standard	Standard	Standard
Conventional Channels	48	160	160
Optional Conventional Channels	150	250	250
Scan Lists	10	20	20
Scan List Members	10	10	10
Priority Monitor List Members	10	10	10
Conventional Scan Members	16	16	16
Telephone List	10+ Last # Dialed	19+ Last # Dialed	19+ Last # Dialed
Unlimited Telephone Interconnect	With Optional Keypad Mic-	With Optional Keypad Mic-	Standard
Private Call Members	10	19	19
	With Optional Keypad Mic- Unlimited Telephone Interconnect	With Optional Keypad Mic- Unlimited Private Call, Call Alert & Telephone Interconnect	Unlimited Private Call, Call Alert & Telephone Interconnect
Call Alert List Members	10	19	19
Status/Message	4/8	8/16	8/16
Remote Mount (Standard on 110W Mobiles)	Optional	Optional	Optional

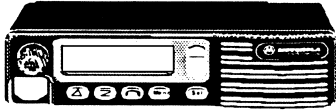
MCS2000 Mobile Series

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DASH MOUNT MODELS

VHF, UHF, 800 MHz & 900 MHz Bands

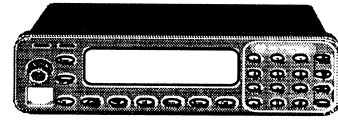
SUGGESTED RETAIL



Model I



Model II



Model III

BAND SPLIT	BAND	CHANNEL	PWR	WATTS	CATALOG MODEL	DISCOUNTED PRICE
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MODEL I		Dash Mount Models				
136-174 MHz	VHF	48	LP	1-25W	M01KHL9PW4_N	\$ 928
403-470 MHz	UHF	48	LP	10-25W	M01RHL9PW4_N	\$ 928
450-512 MHz	UHF	48	LP	10-20W	M01SHL9PW4_N	\$ 928
806-870 MHz	800 MHz	48	LP	10-15W	M01UGL6PW4_N	\$1,140
			MP	15-35W	M01UJL6PW4_N	\$1,353
896-941 MHz	900 MHz	48	LP	10-12W	M01WGL4PW4_N	\$1,140
			MP	15-30W	M01WJL4PW4_N	\$1,353

MODEL II		Dash Mount Models				
136-174 MHz	VHF	160	LP	1-25W	M01KHM9PW5_N	\$1,299
403-470 MHz	UHF	160	LP	10-25W	M01RHM9PW5_N	\$1,299
450-512 MHz	UHF	160	LP	10-20W	M01SHM9PW5_N	\$1,299
			MP	20-40W	M01SKM9PW6_N	\$1,566
806-870 MHz	800 MHz	160	LP	7-15W	M01UGM6PW6_N	\$1,965
			MP	15-35W	M01UJM6PW6_N	\$2,178
896-941 MHz	900 MHz	160	LP	6-12W	M01WGM4PW6_N	\$1,965
			MP	15-30W	M01WJM4PW6_N	\$2,178

MODEL III		Dash Mount Models				
136-174 MHz	VHF	160	LP	1-25W	M01KHN9PW5_N	\$1,512
403-470 MHz	UHF	160	LP	10-25W	M01RHN9PW5_N	\$1,512
450-512 MHz	UHF	160	LP	10-20W	M01SHN9PW5_N	\$1,512
			MP	20-40W	M01SKN9PW6_N	\$1,778
806-870 MHz	800 MHz	160	LP	7-15W	M01UGN6PW6_N	\$2,178
			MP	15-35W	M01UJN6PW6_N	\$2,391
896-941 MHz	900 MHz	160	LP	6-12W	M01WGN4PW6_N	\$2,178
			MP	15-30W	M01WJN4PW6_N	\$2,391

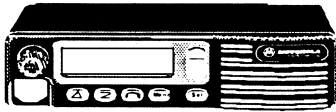
MCS2000 Mobile Series

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REMOTE MOUNT MODELS

VHF, UHF, 800 MHz & 900 MHz Bands

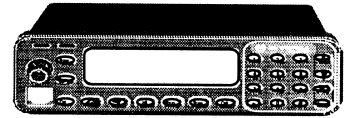
SUGGESTED RETAIL



Model I



Model II



Model III

Note: All High Power Remote Mount models include a standard 17 Ft. Control Cable.

All Low Power & Mid Power models require a Remote Mount option to be ordered separately (see page 15)

BAND SPLIT	BAND	CHANNEL	PWR	WATTS	CATALOG MODEL	DISCOUNTED PRICE
MODEL I		Remote Mount Models				
136-174 MHz	VHF	48	LP	1-25W	M01KHL9PW4_NREMOTE	\$ 928
403-470 MHz	UHF	48	LP	10-25W	M01RHL9PW4_NREMOTE	\$ 928
450-512 MHz	UHF	48	LP	10-20W	M01SHL9PW4_NREMOTE	\$ 928
806-870 MHz	800 MHz	48	LP	10-15W	M01UGL6PW4_NREMOTE	\$1,140
			MP	15-35W	M01UJL6PW4_NREMOTE	\$1,353
896-941 MHz	900 MHz	48	LP	10-12W	M01WGL4PW4_NREMOTE	\$1,140
			MP	15-30W	M01WJL4PW4_NREMOTE	\$1,353
MODEL II		Remote Mount Models				
136-174 MHz	VHF	160	LP	1-25W	M01KHM9PW5_NREMOTE	\$1,299
136-162 MHz	VHF	160	HP	50-110W	M01JLM9PW6_NREMOTE	\$2,119
146-174 MHz	VHF	160	HP	50-110W	M01KLM9PW6_NREMOTE	\$2,119
403-470 MHz	UHF	160	LP	10-25W	M01RHM9PW5_NREMOTE	\$1,299
403-470 MHz	UHF	160	HP	50-110W	M01RLM9PW6_NREMOTE	\$2,119
			LP	10-20W	M01SHM9PW5_NREMOTE	\$1,299
450-512 MHz	UHF	160	MP	20-40W	M01SKM9PW6_NREMOTE	\$1,566
			LP	7-15W	M01UGM6PW6_NREMOTE	\$1,965
806-870 MHz	800 MHz	160	MP	15-35W	M01UJM6PW6_NREMOTE	\$2,178
			LP	6-12W	M01WGM4PW6_NREMOTE	\$1,965
896-941 MHz	900 MHz	160	MP	15-30W	M01WJM4PW6_NREMOTE	\$2,178
			MODEL III		Remote Mount Models	
136-174 MHz	VHF	160	LP	1-25W	M01KHN9PW5_NREMOTE	\$1,512
136-162 MHz	VHF	160	HP	50-110W	M01JLN9PW6_NREMOTE	\$2,332
146-174 MHz	VHF	160	HP	50-110W	M01KLN9PW6_NREMOTE	\$2,332
403-470 MHz	UHF	160	LP	10-25W	M01RHN9PW5_NREMOTE	\$1,512
403-470 MHz	UHF	160	HP	50-110W	M01RLN9PW6_NREMOTE	\$2,332
			LP	10-20W	M01SHN9PW5_NREMOTE	\$1,512
450-512 MHz	UHF	160	MP	20-40W	M01SKN9PW6_NREMOTE	\$1,778
			LP	7-15W	M01UGN6PW6_NREMOTE	\$2,178
806-870 MHz	800 MHz	160	MP	15-35W	M01UJN6PW6_NREMOTE	\$2,391
			LP	6-12W	M01WGN4PW6_NREMOTE	\$2,178
896-941 MHz	900 MHz	160	MP	15-30W	M01WJN4PW6_NREMOTE	\$2,391

MCS2000 Mobile Series

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Options

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SUGGESTED RETAIL

MODEL NUMBER	DESCRIPTION	MANUF.SUGG.RETAIL PRICE
Software Package Option: EACH MODEL MUST BE ORDERED WITH THE SOFTWARE PACKAGE OPTION		

H35	Conventional System Software Package Standard Features: - Repeater/Talkaround Operation - PL/DPL/Carrier Squelch - DTMF Tone Generation (see matrix on page 10) - Dual Priority Channel Scan - Scan (Auto, Pre-programmed, Operator Selectable Scan (see matrix on page 10) Standard Signalling Features: MDC1200/Stat-Alert Features: - PTT-ID Transmit - Emergency with Voice to Follow - Radio Check - Emergency Call - Call Alert Encode/Decode - Status/Message - Voice Selective Call Encode/Decode - Repeater Access Control (RAC) - Emergency Alarm with Acknowledge Stat-Alert Only Feature: - Stat-Alert Data Operated Squelch	\$225.00
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System Enhancement Options:

The System Enhancement Options listed below can be ordered in conjunction with the Conventional System Software Package. To clone radios and use existing programming templates mobiles must include same software enhancements.

H39	MDC1200 Selective Radio Inhibit	\$100.00
H451	GE Star Signalling	\$75.00
H43	MDC Remote Monitor - In addition to the standard microphone, a Visor microphone (attaches to accessory connector) is required for operation.	\$100.00
H46	Enhanced One Touch Button - Up to 8 one touch buttons can be programmed for status - 16 one touch buttons can be programmed for message - 20 one touch buttons can be programmed for direct mode - 20 one touch buttons can be programmed for call alert, private call or phone operation - Control Head buttons or the 3 side buttons on the keypad & noise cancelling microphones can be programmed for "one touch" operation.	\$150.00
H169	Quik Call II, SingleTone	\$100.00
H259	Expansion to a Maximum of 150 Modes - Model I ONLY	\$100.00
H260	Expansion to a Maximum of 250 Modes - Models II & III ONLY	\$150.00

Microphone Options:

B382	"Classic" White Palm Microphone	N/C
B01	3 x 4 Button Keypad Microphone (includes three additional programmable buttons)	\$155.00
B239	Noise Cancelling Microphone (includes three additional programmable buttons)	\$70.00
B71	Omit Standard Palm Microphone	-\$45.00
B109	Handset (requires software version 3.11 or greater)	\$140.00

Data Option:**Important Ordering Notes for VRM 500 Data Operation:**

- Models II and III ONLY
- For UHF 40W and 110W, this option includes pre-amp (see catalog sheet for pre-amp specs)
- UHF and 800 MHz, 900 MHz ONLY
- NOT available with UHF 25 Watt R1 and R2
- Does NOT include Vehicular Radio Modem, hardware or cables
- Available via a FLASHport upgrade for the 800 MHz and 900 MHz models
- Must be ordered with the radio direct from factory if VRM500 data is required now or in the future.

H44	VRM 500 Data Equipped SW & HW - provides VRM 500 Data capability supporting RDLAP and MDC 4800 operation.	\$275.00
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MCS2000 Mobile Series Conventional Radio Systems Options

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MODEL NUMBER	DESCRIPTION	MANUF.SUGG.RETAIL PRICE
Speaker Options:		
Model I Speakers:		
G374	External 7.5 Watt Water Resistant Speaker (compatible with all dash & remote models)	\$40.00
G310	External 13 Watt Water Resistant Speaker (compatible only with dash mount version)	\$60.00
Model II/Model III Speakers:		
G310	External 13 Watt Water Resistant Speaker	\$30.00
B87	Omit Standard External 7.5 Watt Speaker	-\$25.00
Miscellaneous Omit Options:		
All Models:		
B161	Omit Power Cable (Low/Mid Power Models)	-\$15.00
B161	Omit Power Cable (High Power Models)	-\$20.00
B65	Omit Mounting Hardware (Low/Mid Power Models)	-\$10.00
B65	Omit Mounting Hardware (High Power Models)	-\$20.00
G98	Omit Model I Control Head	-\$150.00
G97	Omit Model II Control Head	-\$395.00
G96	Omit Model III Control Head	-\$545.00
Omit All Accessories Options:		
B90	Low/Mid Power Model I Only. Omits microphone, hang-up clip, power cable and mounting hardware.	-\$65.00
B90	Low/Mid Power Models II & III Only. Omits microphone, hang-up clip, speaker, power cable and mounting hardware.	-\$90.00
B90	High Power Models II, III Only. Omits microphone, hang-up clip, speaker, power cable, remote cable, transceiver mounting hardware. (Does not delete control head and transceiver)	-\$160.00
Control Station Operation Options: Low / Mid Power Models ONLY:		
For Dash Mount radios ONLY. Omits all accessories unique to mobile operation and adds a base tray, 120/240 VAC 50/60 Hz power supply with 10 Ft. power cable and desk microphone.		
Note: When ordering the B665 an antenna option or no antenna required option (G325) must be ordered.		
B665	Control Station Operation - Low Power (12-25W) Models	\$345.00
B665	Control Station Operation - Mid Power (30-50W) Models	\$385.00
Miscellaneous Options:		
B113	Ignition Sense Cable	N/C
B688	Emergency Pushbutton	\$35.00
B470	Emergency Footswitch	\$51.00
B116	Alarm Buzzer	\$20.00
B221	Alarm Relay and Cable	\$35.00
B81	Keylock Mounting (Low/Mid/Hi Power)	\$25.00
G245	Car Radio Mute Cable	\$10.00
B12	VHF 110W / UHF 20-40W / 110 Watt RF Pre-Amplifier - Increases receiver sensitivity.	\$68.00
G472	Detailed User Guide	\$6.00

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MCS2000 Mobile Series

Conventional Radio Systems

Options

MODEL NUMBER	DESCRIPTION	MANUF.SUGG.RETAIL PRICE
Remote Mount Options:		

Low / Mid Power Models ONLY:

All Low Power and Mid Power Remote Mount models require one of the following control cables.

High Power Remote Mount models include a 17 Ft. control cable standard.

Remote Mounts include 20 Ft. power cable, control head back plate and radio front plate, plus control head mounting hardware.

B496	Remote Mount with 10 Ft. Control Cable	\$195.00
B654	Remote Mount with 17 Ft. Control Cable	\$210.00
B101	Remote Mount with 22 Ft. Control Cable	\$220.00
B64	Remote Mount with 40 Ft. Control Cable	\$260.00

High Power Models ONLY:

High power units ship standard as remote mount with a 17 Ft. control cable. To order an alternate control cable length see options below:

B496	Remote Mount with 10 Ft. Control Cable	-\$15.00
B101	Remote Mount with 22 Ft. Control Cable	\$10.00
B64	Remote Mount with 40 Ft. Control Cable	\$50.00

Dual Control Head:

Capability to control the radio from two locations within the vehicle, typically the front and the rear. The front speaker shipping with the dual control head is a 7.5 watt water resistant speaker and the rear speaker is a 10 watt water resistant amplified speaker. The only cable available with the dual control head is a 40 Ft. Y-cable. This option is **NOT** compatible with the dash mount configuration. Ships standard with the remote mount configuration and does not require a remote mount option. **NOT** compatible with B109 handset.

B800	Dual Control Head Capability - Models II and III ONLY	\$975.00
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Antenna Options:**All Bands:**

G325	Antenna Not Required	N/C
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VHF

B774	VHF 1/4 Wave Roof Top Antenna, 136-144 MHz	N/C
B775	VHF 1/4 Wave Roof Top Antenna, 144-150.8 MHz	N/C
B776	VHF 1/4 Wave Roof Top Antenna, 150.8-162 MHz	N/C
B777	VHF 1/4 Wave Roof Top Antenna, 162-174 MHz	N/C
B123	VHF 3dB Roof Top Antenna, 136-174 MHz (3.4 MHz Bandwidth)	\$30.00

UHF

G488	UHF 1/4 Wave Roof Top Antenna, 403-430 MHz	N/C
G489	UHF 1/4 Wave Roof Top Antenna, 450-470 MHz	N/C
G490	UHF 1/4 Wave Roof Top Antenna, 470-512 MHz	N/C
G491	UHF 3.5dB Roof Top Antenna, 406-420 MHz	\$50.00
G492	UHF 3.5dB Roof Top Antenna, 450-470 MHz	\$50.00
G493	UHF 3.5dB Roof Top Antenna, 470-495 MHz	\$50.00
G494	UHF 3.5dB Roof Top Antenna, 494-512 MHz	\$50.00

800 MHz

G495	800 MHz 1/4 Wave Roof Top Antenna, 806-900 MHz	N/C
B123	800 MHz 3dB Roof Top Antenna, 806-900 MHz	\$12.00

900 MHz

B925	900 MHz 3dB Low Loss, Roof Top Mount Antenna with 14 Ft. Cable, 890-960 MHz	N/C
B926	900 MHz 3dB Low Loss, Roof Top Mount Antenna with 22 Ft. Teflon Cable, 890-960 MHz	\$12.00

MCS2000 Mobile Series

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Options

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MODEL NUMBER	DESCRIPTION	MANUF.SUGG.RETAIL PRICE
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Direct Entry Keypad (DEK) Plus Options: Model II and Model III ONLY

The DEK Plus accessory interfaces with the MCS2000 mobile radio and Unitrol Siren which supports the enhanced one touch button feature. Up to one DEK Plus and two DEK accessories may be attached to the MCS2000 mobile radio Models II and III providing up to 24 programmable button capability. (Note: The MCS2000 DEK Plus accessory supports simple status signalling only)

The following DEK Plus accessory (dash or remote mount configuration) options include dedicated buttons to provide the direct entry of mode, status, message, call alert, private call or phone. The buttons are positioned in a supplemental housing that mounts directly above the control head and uses the same mounting bracket.

All DEK Plus accessory (dash or remote mount configuration) options ship standard with a DEK Plus housing which includes status buttons 1-8, a mounting kit, a cable kit and instruction manual. The DEK accessory ships standard with message buttons 1-8 installed. Remote mount or dash mount configurations are available. MCS2000 Model I radios are not compatible with the DEK Plus accessory options.

The following Direct Entry Keypad (DEK) Plus accessory options require software host code version 5.0 or later. Please refer to System Software package upgrades on the FLASHport page of the MCS2000 section.

Dash Mount Configurations - Model II and Model III Only

G226	One DEK Plus Accessory, Dash Mount One supplemental DEK Plus accessory housing, dash mount cable kit (HKN6137) and button kit (includes buttons for message 1-8, mode 1-8, buttons numbered 1 & 2 and two blank plugs).	\$575.00
G229	One DEK Plus with one DEK Accessory, Dash Mount Two supplemental housings (one DEK Plus and one DEK accessory), dash mount cable kit (HKN6137), DEK to DEK cable (HKN4273) and button kit (includes buttons for mode 1-8, buttons numbered 1-8 and two blank plugs)	\$750.00
G232	One DEK Plus with two DEK Accessories, Dash Mount Three supplemental housings (one DEK Plus and two DEK accessories), dash mount cable kit (HKN6137), two DEK to DEK cables (HKN4273) and button kit (includes buttons for mode 9-16, message 9-16, buttons numbered 1-8 and two blank plugs)	\$925.00

For siren capability without enhanced one-touch capability order the Unitrol Siren (CDN6160) and the following option:

W815	Blank DEK Plus Accessory with Unitrol Siren Interface Cable - Dash Mount ONLY Dash mount cable kit, Unitrol Siren interface cable and one supplemental DEK Plus accessory housing without keypad.	\$525.00
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Remote Mount Configurations - Model II and Model III Only

G225	One DEK Plus Accessory, Remote Mount One supplemental DEK Plus accessory housing, remote mount cable kit (NKN6136) and button kit (includes buttons for message 1-8, mode 1-8, buttons numbered 1 & 2 and two blank plugs).	\$635.00
G228	One DEK Plus with one DEK Accessory, Remote Mount Two supplemental housings (one DEK Plus and one DEK accessory), remote mount cable kit (NKN6136), DEK to DEK cable (HKN4273) and button kit (includes buttons for mode 1-8, buttons numbered 1-8 and two blank plugs)	\$810.00
G231	One DEK Plus with two DEK Accessories, Remote Mount Three supplemental housings (one DEK Plus and two DEK accessories), remote mount cable kit (NKN6136), two DEK to DEK cables (HKN4273) and button kit (includes buttons for mode 9-16, message 9-16, buttons numbered 1-8 and two blank plugs)	\$985.00

For siren capability without enhanced one-touch capability order the Unitrol Siren (CDN6160) and the following option:

W269	Blank DEK Plus Accessory with Unitrol Siren Interface Cable - Remote Mount ONLY Remote mount cable kit, Unitrol Siren interface cable and one supplemental DEK Plus accessory housing without keypad.	\$525.00
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See next page for Siren Only Interface.

MCS2000 Mobile Series Conventional Radio Systems Options / Accessories

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MODEL NUMBER	DESCRIPTION	MANUF.SUGG.RETAIL PRICE
Siren Only Interface:		
The Unitrol Siren (CDN6160 - see accessory pages) is compatible for use with the MCS2000 mobile radio and DEK Plus accessory option. For additional information refer to the MCS2000 Siren/Public Address accessory section.		
G224	Unitrol Siren Interface Cable For siren and enhanced one touch capability, order the Unitrol Siren (CDN6160), a DEK Plus accessory dash or remote mount configuration option and the following Unitrol Siren Interface Cable (G224) option.	\$19.00
Warranty Options:		
G400	Express Service Plus Plan (ESP) 1 Year - Provides for 1 year of extended hardware repair coverage beginning after the standard warranty period. Repairs will be made at the Radio Support Center in Rockford, Illinois. The customer pays for inbound shipping. No discounts are allowed on this option.	\$33.00
G24	Express Service Plus Plan (ESP) 2 Year - Provides for 2 years of extended hardware repair coverage beginning after the standard warranty period. Repairs will be made at the Radio Support Center in Rockford, Illinois. The customer pays for inbound shipping. No discounts are allowed on this option.	\$65.00
Microphones:		
HMN4069	Standard White Palm Microphone	AAD \$82.50
HMN4072	"Classic" White Palm Microphone	AAD \$82.50
NMN6210	3 x 4 Button Keypad Microphone (includes three additional programmable buttons)	AAD \$248.00
GMN6147	Noise Cancelling Microphone (includes three additional programmable buttons)	AAD \$70.50
HMN1085	Handset (requires software version 3.11 or greater)	AAD \$231.00
When a Visor microphone is used as a second microphone, the Gooseneck PTT or PTT Footswitch is required to activate the PTT (not recommended for use with encryption).		
HMN1072	Visor Microphone - Dash Mounted	AAD \$50.00
HMN1073	Visor Microphone - Remote Mounted	AAD \$55.00
Speakers:		
HSN4038	External 7.5 Watt Water Resistant Remote Mount Speaker	AAD \$60.50
HSN4039	External 13 Watt Water Resistant Remote Mount Speaker (not compatible with Model I)	AAD \$71.50
HKN6127	Speaker Adapter Cable - required to connect a dash mount MSC2000 mobile to the HSN4038 & HSN4039 speakers to provide backward compatibility with any remote mount Spectra speaker.	AAD \$5.75
Miscellaneous Accessories:		
GLN7280	Emergency Pushbutton	AAD \$44.00
HLN5113	Emergency Footswitch	AAD \$61.75
GLN7279	Gooseneck PTT	AAD \$76.00
GLN7278	PTT Footswitch	AAD \$61.75
GLN7282	Alarm Buzzer	AAD \$46.25
HLN6642	Alarm Relay and Cable	AAD \$52.00
HLN6372	Key Lock Mounting	AAD \$44.00
HKN6128	Ignition Switch Cable	AAD \$15.75
GKN6262	Car Radio Mute Cable	AAD \$11.00
Second Microphone Adapter Cable - Allow a second mic to be added via mobile accessory connector (requires also ordering a second PTT microphone HMN4072 or HMN4069)		
HKN6129	17 Ft. Adapter Cable for Second Microphone	AAD \$18.75
HKN6130	40 Ft. Adapter Cable for Second Microphone	AAD \$44.00

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MODEL NUMBER	DESCRIPTION	MANUF.SUGG.RETAIL PRICE
Power Cables:		
HKN4191	10 Ft. Low/Mid Power Cable	AAD \$21.00
HKN4192	20 Ft. Low/Mid Power Cable	AAD \$38.33
HKN6110	20 Ft. High Power Cable	AAD \$22.75
Control Head Cables:		
Remote configuration requires a remote mount retrofit kit or remote mount option. A control head cable alone does NOT allow for the control head to operate remotely.		
HKN6111	10 Ft. Control Head Cable	AAD \$66.00
HKN6112	17 Ft. Control Head Cable	AAD \$71.50
HKN6113	22 Ft. Control Head Cable	AAD \$93.50
HKN6118	40 Ft. Control Head Cable	AAD \$87.50
Remote Mount Kits:		
Field retrofit kits to convert a low or mid power radio from dash to remote mount. Includes 17 Ft. control head cable, 20 Ft. power cable, 40 Ft. power cable, control head back plate and mounting hardware, front plate for the transceiver and an adapter for the speaker.		
H1634	Remote Mount Retrofit Kit - Model I	AAD \$155.00
H1635	Remote Mount Retrofit Kit - Model II or Model III	AAD \$155.00
Dual Control Heads:		
These retrofit kits allow the conversion of a MCS2000 remote mount mobile to a dual control head. The conversion requires the installation of the 40 Ft. Y-cable, which is included in the dual control head kit, along with the installation of the rear control head and rear speaker. The rear speaker is a 10 watt, water resistant, amplified speaker.		
Note: Dual Control Head is NOT compatible with the dash mount configuration and the 25 watt models.		
H1698	Model II Dual Control Head	\$975.00
H1699	Model III Dual Control Head	\$975.00
Control Station Accessories:		
Low Power:		
HLN6404	Low Power Desk Tray with Speaker - Model II & Model III	AAD \$77.00
HLN6405	Low Power Desk Tray without Speaker - Model I	AAD \$53.00
HPN4002_R	Power Supply and Cable (1-25 Watt Models)	\$264.00
Mid Power:		
HLN6580	Mid Power Desk Tray with Speaker - Model II & Model III	AAD \$70.00
HLN6581	Mid Power Desk Tray without Speaker - Model I	AAD \$53.00
HPN4001_R	Power Supply and Cable (25-60 Watt Models)	\$296.00
RF Modem Operation:		
Compatible with all models and programmable via Radio Service Software (RSS). The following accessories must be ordered for RF Modem Operation. Note: RF Modem will NOT work with Type I Trunking		
	Power Supply	See Control Station Accessories
	Mobile Desk Tray	See Control Station Accessories
Spare Control Heads (Fixed Buttons):		
H1656	Model I Spare Control Head - Alpha Numeric	AAD \$186.00
H1657	Model II Spare Control Head - Alpha Numeric	AAD \$445.00
H1658	Model III Spare Control Head - Alpha Numeric	AAD \$521.00
Replaceable Button Control Head Retrofit Kits:		
The following kits allow a fixed button control head to be converted to a replaceable button control head. This kit does not contain buttons except for those specified below. See installation manual for available button parts through AAD.		
REX4460	Model I Replaceable Button Control Head (includes Up/Down Rocker Button)	AAD \$18.00
REX4455	Model II Replaceable Button Control Head	AAD \$9.20
REX4456	Model III Replaceable Button Control Head (incl's Alpha-Numeric Keypad Buttons)	AAD \$9.20

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MODEL NUMBER	DESCRIPTION	MANUF.SUGG.RETAIL PRICE
Antennas:		
<u>VHF</u>		
HAD4007_R	VHF 1/4 Wave Roof Mount Antenna,144-152 MHz	\$19.50
HAD4008_R	VHF 1/4 Wave Roof Mount Antenna,150.8-162 MHz	\$19.50
HAD4009_R	VHF 1/4 Wave Roof Mount Antenna, 162-174 MHz	\$19.50
RAD4010ARB	VHF 3dB Gain Antenna, 136-174 MHz - 3.4 MHz Bandwidth	AAD \$58.50
<u>UHF</u>		
HAE4002	UHF 1/4 Wave Roof Mount Antenna, 403-430 MHz	AAD \$20.00
HAE4003_R	UHF 1/4 Wave Roof Mount Antenna, 450-470 MHz	\$20.00
HAE4004	UHF 1/4 Wave Roof Mount Antenna, 470-512 MHz	AAD \$20.00
HAE4010	UHF 3.5dB Gain Roof Mount Antenna, 406-420 MHz	AAD \$68.00
HAE4011_R	UHF 3.5dB Gain Roof Mount Antenna, 450-470 MHz	\$68.00
HAE4013	UHF 3.5dB Gain Roof Mount Antenna, 494-512 MHz	AAD \$68.00
<u>800 MHz</u>		
HAF4002	806-900 MHz, 1/4 Wave Roof Mount Antenna	AAD \$14.00
RRA4983	806-900 MHz, 3dB Roof Mount Stainless Steel Antenna, Mini-UHF & Low Loss Cable	AAD \$49.00
<u>900 MHz</u>		
RRA4935	900 MHz 3dB Gain Antenna with 14 Ft. Cable	AAD \$30.00
RAF4003ARM	900 MHz 3dB Gain Low Loss Antenna with 22 Ft. Teflon Cable	AAD \$28.00
Radio Service Software:		
RVN4175	MCS2000 Radio Service Software - includes 3.5" disk and instruction manual	AAD \$263.00
RKN4062	MCS2000 Radio Service Software Programming Cable (RIB to mic connector)	AAD \$41.50
RKN4063	FLASH Programming Cable (RIB to accessory connector)	AAD \$139.00
RLN1015	SmartRIB	AAD \$550.00
RLN4008	Radio Interface Box (RIB) - used for RSS programming only. (For both RSS programming and FLASHport use SmartRIB)	AAD \$200.00
0180302E27	120 Volt Power Supply	AAD \$42.75
RLN4488	Battery Pack (optional) Standard 9 to 9 or 9 to 25 pin serial connectors required for computer to SmartRIB connection. 486 IBM compatible with 8MB RAM recommended.	AAD \$95.00
Manuals: Each MCS2000 includes a Short Form User Guide		
6881083C48	Model I Short Form User Guide (English Only)	AAD \$4.60
6881083C05	Model I Short Form User Guide (Multi-Lingual)	AAD \$17.00
6881083C49	Model II & III Short Form User Guide (English Only)	AAD \$17.25
6881080C35	Detailed User Guide	AAD \$39.50
6802058U20	Installation Manual	AAD \$18.75
6881080C47	Accessories Guide	AAD \$29.50
6881081C15	Radio Service Software Instruction Manual	AAD \$25.00
<u>Service Manuals - Requires Volume 1 and Volume 2</u>		
6881083C20	Volume I Service Manual - for all models except 25W VHF/UHF	AAD \$54.00
6881080C41	Volume II Service Manual - VHF	AAD \$53.25
6881080C48	Volume II Service Manual - VHF 25 Watt Only	AAD \$14.00
6881080C49	Volume II Service Manual - UHF 25 Watt Only	AAD \$18.25
6881080C42	Volume II Service Manual - UHF - 110 Watt Only	AAD \$56.00
6881080C43	Volume II Service Manual - 800 MHz	AAD \$54.00
6881080C44	Volume II Service Manual - 900 MHz	AAD \$54.00

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SUGGESTED RETAIL

MODEL NUMBER	DESCRIPTION	MANUF.SUGG.RETAIL PRICE
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Direct Entry Keypad (DEK) Plus and Siren Configurations:

The Unitrol Siren (CDN6160 - see accessory pages) is compatible for use with the MCS2000 mobile radio and accessory option. The DEK Plus option routes received audio through the siren speaker, routes microphone audio out of the siren speaker, blocks secure received messages from emitting from the siren speaker

For additional information regarding the Unitrol Siren refer to the MCS2000 Mobile Series Siren/Public Address section.

The following Direct Entry Keypad (DEK) Plus accessories require software host code version 5.0 or later. Please refer to System Software Package upgrades in the FLASHport section if a software upgrade is required.

For Siren and One Touch Capability order the Unitrol Siren (CDN6160) from AAD and the following kits.

Dash Mount

HLN6679	DEK Plus Accessory with Buttons	AAD	\$658.00
HKN6137	4 Ft. Cable, DEK Plus to MCS2000 Accessory Connector	AAD	\$27.50
HKN6143	4 Ft. Cable, DEK Plus Accessory to Unitrol Siren Control Box	AAD	\$6.60

Remote Mount

HLN6679	DEK Plus Accessory with Buttons	AAD	\$658.00
HKN6136	17 Ft. Cable, DEK Plus to MCS2000	AAD	\$128.00
HKN6143	4 Ft. Cable, DEK Plus Accessory to Unitrol Siren Control Box	AAD	\$6.60

Siren

Order the following kits for Siren Capability without One-Touch Capability:

HLN6678	DEK Plus Accessory, Blank Front Panel		\$480.00
HKN6137	4 Ft. Cable, DEK Plus to MCS2000 Accessory Connector	AAD	\$27.50
HKN6144	23 Ft. Cable, DEK Plus Accessory to Unitrol Siren Control Box	AAD	\$22.00

Miscellaneous Accessories:

HKN4273	1 Ft. Cable, DEK to DEK	AAD	\$106.00
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Manuals: Each DEK Plus Accessory (dash or remote mount) includes a DEK Plus User Manual

6881091C39	DEK Plus Accessory User Manual	AAD	\$5.20
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Siren/Public Address

For additional information, refer to the MCS2000 Accessories Catalog Sheet.

Unitrol Touchmaster TM4 Siren/PA

CDN6151	Touchmaster TM4 Siren/PA Switching System	AAD	\$957.00
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One of the following microphone accessories must be ordered for use with the Unitrol Touchmaster TM4 Siren/PA:

CDN6157	Standard Microphone	AAD	\$60.50
CDN6156	Noise Cancelling Microphone	AAD	\$148.00
CDN6159	Microphone Interface Adapter Box - Connects the MCS2000 mobile to the Siren/PA allowing for the MCS2000 Microphone to be used for Public Address messages. Not for use with 3 Button Keypad Microphone (NMN6210) and Noise Cancelling Microphone (GMN6147).	AAD	\$402.00

Unitrol Omega Siren/PA Package

CDN6160	Unitrol Omega 5000 Space Saving Siren/PA Package Includes Omega 5000 Controller, Omega 90 Digital Siren/PA with adjustable power output 58/200 watts and 18 Ft. Interconnect cable for Omega 90 Siren/PA.	AAD	\$875.00
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One of the following microphone accessories must be ordered for use with the Omega 5000 / Omega 8000 Siren/PA:

CDN6152	Standard Microphone	AAD	\$88.00
CDN6150	Noise Cancelling Microphone	AAD	\$164.00
CDN6159	Microphone Interface Adapter Box - Connects the MCS2000 mobile to the Siren/PA allowing for the MCS2000 Microphone to be used for Public Address messages. Not for use with 3 Button Keypad Microphone (NMN6210) and Noise Cancelling Microphone (GMN6147).	AAD	\$402.00

Not compatible with CDN6307.

Speaker for Siren/Public Address

TDN6253	Underhood Speaker with Gray Finish	AAD	\$220.00
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MODEL NUMBER	DESCRIPTION	MANUF.SUGG.RETAIL PRICE
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FLASHport Aftermarket Upgrades

FLASHport Aftermarket Software is used to upgrade to the latest version of your System Software package, to upgrade to a different System Software Package, or to order Enhancement Options for existing MCS2000 radios in the field. FLASHport Upgrade kit contains upgrade software, FLASHkey and upgrade documentation.

Ordering Instructions:

- 1) Specify the System Upgrade Package (H1625CV or H1625PP).
- 2) Order quantity must equal the number of radios being upgraded.
- 3) Choose the appropriate Enhancement Options and enter as sub-items.
- 4) The model number and FLASHcode (FLASHcode can be read from radio using SRIB and RSS) must be included.

Conventional FLASHport System Software Upgrades

H1625CV	FLASHport Conventional System Software Package	N/C
	<u>Standard Features:</u>	
	- Stat-Alert PTT-ID Transmit	
	- Stat-Alert Radio Check	
	- Stat-Alert Call Alert Encode/Decode	
	- Stat-Alert Voice Selective Call Encode/Decode	
	- Stat-Alert Emergency Alarm with Acknowledge	
	- Stat-Alert Emergency with Voice to Follow	
	- Stat-Alert Emergency Call	
	- Stat-Alert Data Operated Squelch	
	- Stat-Alert Status/Message	
	- Stat-Alert Repeater Access Control (RAC)	
<u>Options:</u>		
Q324	Conventional Field Upgrade	\$75.00
H39	MDC1200 Selective Radio Inhibit	\$100.00
H43	Trunking/MDC Remote Monitor	\$100.00
H451	GE Star Signalling	\$75.00
H169	Quik Call II, SingleTone	\$100.00
H259	Expansion to a Maximum of 150 Modes - Model I ONLY	\$100.00
H260	Expansion to a Maximum of 250 Modes - Models II & III ONLY	\$150.00

FLASHport Conventional to Privacy Plus System Software Upgrades

H1625PP	FLASHport Conventional to Privacy Plus System Software Package	N/C
<u>Options:</u>		
Q325	StartSite (Privacy Plus) Field Upgrade	\$100.00
H259	Expansion to a Maximum of 150 Total Talkgroups and Conventional Channels-Model I ONLY	\$100.00
H260	Expansion to a Maximum of 250 Total Talkgroups & Conventional Channels-Models II & III ONLY	\$150.00

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