Source File	Declared within	Name	Description	type	Modifier specifier	Scope	Size (in bytes)
CI_V_based_Remote_Antenna_Switch.pde	Program	bandMeters[]	Array for "meters" value for each band, starting from index 1 (160m) to index 11 (6 meters)	byte array	CONST	Program	11
CI_V_based_Remote_Antenna_Switch.pde	Program	bandLow[]	Array for lower frequency for each band, starting from index 1 (160m) to index 11 (6 meters)	long array	CONST	Program	46
CI_V_based_Remote_Antenna_Switch.pde	Program	bandHigh[]	Array for upper frequency for each band, starting from index 1 (160m) to index 11 (6 meters)	long array	CONST	Program	46
CI_V_based_Remote_Antenna_Switch.pde	Program	baudRates[]	Array for valid CIV Baud rates, starting from index 1 – 300 baud to 5 – 19200)	unsigned int array	CONST	Program	12
CI_V_based_Remote_Antenna_Switch.pde	Program	validChars[]	array listing all valid characters within antenna names.	char array	CONST	Program	81
CI_V_based_Remote_Antenna_Switch.pde	Program	rtxAddr	RTX CIV Address (read from configuration). HEX format	byte	GLOBAL	Program	1
CI_V_based_Remote_Antenna_Switch.pde	Program	ic735mode	If 735 mode is enabled, then true else false	boolean	GLOBAL	Program	1
CI_V_based_Remote_Antenna_Switch.pde	Program	baudRateIndex	Point to a value within the baudRates[] array to specify CIV baud rate	byte	GLOBAL	Program	1
CI_V_based_Remote_Antenna_Switch.pde	Program	notConfigured	True if EEPROM is empy (or reset has been made) otherwise false	boolean	GLOBAL	Program	1
CI_V_based_Remote_Antenna_Switch.pde	Program	antennaName[]	Stores namee for each antenna. Antenna 1 ranges from index 1 to 9, name 2 from 10 to 19, etc	char array	GLOBAL	Program	72
CI_V_based_Remote_Antenna_Switch.pde	Program	bandToAnt[]	Stores the band to antenna association. Same format as bandLow, bandHigh, bandMeters	byte array	GLOBAL	Program	11
CI_V_based_Remote_Antenna_Switch.pde	loop	curFreq	Currently working frequency (read from CIV)	long	STATIC	Function	4
CI_V_based_Remote_Antenna_Switch.pde	loop	curBand	Currently working band (decoded based on curFreq)	byte	STATIC	Function	1
CI_V_based_Remote_Antenna_Switch.pde	loop	curAntenna	Currently selected antenna	byte	STATIC	Function	1
CI_V_based_Remote_Antenna_Switch.pde	loop	autoMode	True if automatic operation, false if manual	boolean	STATIC	Function	1
CI_V_based_Remote_Antenna_Switch.pde	loop	deviceStatus	Current operation status (0x00 all OK, 0x01 Out of band, 0x02 No antenna for band, 0x04 No CIV Data, 0x08 manual mode, 0x10 no antenna connected	byte	STATIC	Function	1
CI_V_based_Remote_Antenna_Switch.pde	loop	switchOpCode	stores which kind of switch must be done (-1/+1 decrement/increment antenna, 0xFF00 do nothing – no band change occurred, 0xFF01 switch to configured antenna for band)	int	LOCAL	Function	2
A_menu.pde	Program	menuConfigItems[]	String containing all menu titles. Menu titles are 16 chars, so first manu goes from 0 to 15, second from 16 to 31, etc.	char array	CONST	Program	129
A_menu.pde	Program	lastMenuOp	A timestamp (based on arduino clock) updated every time an action is performed on config menu. Used for timing out from config menu	unsigned long	STATIC	Program	4
A_menu.pde	Program	configChanged	True if a config change occurred in any submenu, otherwise false	boolean	STATIC	Program	1
A_menu.pde	configMainMenu	exitConfig	True if used pressed ESC for exiting config menu	boolean	LOCAL	Function	1
A_menu.pde	configMainMenu	curSelectedOption	Pointer to an option menu value (start from sub menu 1)	byte	STATIC	Function	1
A_menu.pde	configBaudRate	exitConfig	True if used pressed ESC for exiting config submenu CIV BAUD RATE	boolean	LOCAL	Function	1
A_menu.pde	configBaudRate	curSelectedOption	stores the currently selected baud rate index (at the begin, it's a copy of baudRateIndex then stores the user selected value)	byte	LOCAL	Function	1
A_menu.pde	configRtxAddress	exitConfig	True if used pressed ESC for exiting config submenu CIV RTX ADDRESS	boolean	LOCAL	Function	1
A_menu.pde	configRtxAddress	newRtxAddress	Stores the CIV address selected by the user (at the beginning it's the rtxAddress)	byte	LOCAL	Function	1
A_menu.pde	configIC735Mode	exitConfig	True if used pressed ESC for exiting config submenu CIV IC735 MODE	boolean	LOCAL	Function	1
A_menu.pde	configIC735Mode	isIC735	Stores the user selected value for IC735 op mode. At the beginning is the same as ic735Mode	boolean	LOCAL	Function	1
A_menu.pde	configBandToAntenna	exitConfig	True if used pressed ESC for exiting config submenu BAND<>Antenna	boolean	LOCAL	Function	1
A_menu.pde	configBandToAntenna	antennaIndex	Index used for cycling antennas during configuration	byte	LOCAL	Function	1
A_menu.pde	configBandToAntenna	bandIndex	A pointer to banndMeters array: used for cycling band for configuration	byte	LOCAL	Function	1
A_menu.pde	configBandToAntenna	scrollBand	True if scrolling band (first config step), false when scrolling antennas for specified band (second config step)	boolean	LOCAL	Function	1
A_menu.pde	configAntennaName	exitConfig	True if used pressed ESC for exiting config submenu ANTENNA NAMES	boolean	LOCAL	Function	1
A_menu.pde	configAntennaName	antennaIndex	Index used for cycling antennas during configuration	byte	LOCAL	Function	1
A_menu.pde	configAntennaName	scrollAntenna	True if scrolling antennas (first config step), false when changing name for the antenna (second config step)	boolean	LOCAL	Function	1
A_menu.pde	configAntennaName	indexChar	A pointer to the being modified char in antenna name (lasts from 1 to 8)	byte	LOCAL	Function	1
A_menu.pde	configAntennaName	indexValidChar	A pointer to the validChars array. It points to the char being modified	byte	LOCAL	Function	1
A_menu.pde	configAntennaName	tempName[]	temporary string for storing antenna names during configuration	char array	LOCAL	Function	9
A_menu.pde	configAntennaName	i	Generic index – in a for	int	LOCAL	Block	2
A_menu.pde	configAntennaName	i	Generic index – in a for	int	LOCAL	Block	2
A_menu.pde	configFactoryDefaults	exitConfig	True if used pressed ESC for exiting config submenu FACTORY DEFAULTS	boolean	LOCAL	Function	1
A_menu.pde	configSoftwareVersion	exitConfig	True if used pressed ESC for exiting config submenu	boolean	LOCAL	Function	1
A_menu.pde	getValidCharIndex	i	Generic index. Stores the position within validChars array of the currently selected char.	int	LOCAL	Function	2
A_menu.pde	getValidCharIndex	value	The vhar being searched within the validChars array	char	FUNC ARG	Function	1
B_lcd.pde	Program	LCDCOLS	LCD Display – columns number. Used a variables because those are used more than once in the source code	int	CONST	Program	2

Source File	Declared within	Name	Description	type	Modifier specifier	Scope	Size (in bytes)
B_lcd.pde	Program	LCDROWS	LCD Display – rows number. Used a variables because those are used more than once in the source code	int	CONST	Program	2
B_lcd.pde	lcdUpdate	prevFreq	Stores the frequency value used during last function call. Avoid updating the display if no change is in effect	long	STATIC	Function	4
B_lcd.pde	lcdUpdate	prevBand	Stores the band value (index pointing to bandMeters array) used during last function call. Avoid updating the display if no change is in effect	byte	STATIC	Function	1
B_lcd.pde	lcdUpdate	prevAntenna	Stores the antenna value used during last function call. Avoid updating the display if no change is in effect	byte	STATIC	Function	1
B_lcd.pde	lcdUpdate	i	Generic index – in a for	int	LOCAL	Block	2
B_lcd.pde	lcdConfigMenu	i	Generic index – in a for	int	LOCAL	Block	2
B_lcd.pde	lcdConfigBandToAntenna	tmpAntennaIndex	stores temporary the antennaIndex	byte	LOCAL	Function	1
B_lcd.pde	lcdConfigBandToAntenna	i	Generic index – in a for	int	LOCAL	Block	2
B_lcd.pde	lcdConfigAntennaName	i	Generic index – in a for	int	LOCAL	Block	2
B_lcd.pde	lcdConfigAntennaName	i	Generic index – in a for	int	LOCAL	Block	2
B_lcd.pde	displayMessage	exitConfig	True if we need to exit the display message option, otherwise false if need to stay in display message option	boolean	LOCAL	Function	1
B_lcd.pde	displayMessage	timestamp	A timestamp (based on arduino clock) used to quit from message menu after a specified time	unsigned long	LOCAL	Function	4
B_lcd.pde	lcdCurrentConfigItem	i	Generic index – in a for	int	LOCAL	Block	2
B_lcd.pde	lcdClearRow	i	Generic index – in a for	int	LOCAL	Block	2
B_lcd.pde	lcdUpdate	newFreq	The frequency to be displayed	unsigned int	FUNC ARG	Function	2
B_lcd.pde	lcdUpdate	newBand	The band to be displayed	byte	FUNC ARG	Function	1
B_lcd.pde	lcdUpdate	newAntenna	The antenna number to be displayed	byte	FUNC ARG	Function	1
B_lcd.pde	lcdUpdate	forceUpdate	Normally, display is not updated if band, freq and antenna are the same as previous call. Setting this to true will force update even if there is no change	boolean	FUNC ARG	Function	1
B_lcd.pde	lcdConfigMenu	configMenuID	Index pointing to a menuConfigItems[] title to be displayed on LCD	byte	FUNC ARG	Function	1
B_lcd.pde	lcdConfigMenu	clearLcd	if true, redraw the entire display	boolean	FUNC ARG	Function	1
B_lcd.pde	lcdConfigBaudRate	baudRate	Index to baudRates[] array indicating the CIV baud rate to be printed on LCD as initial value (i.e. the running one)	byte	FUNC ARG	Function	1
B_lcd.pde	lcdConfigBaudRate	clearLcd	if true, redraw the entire display	boolean	FUNC ARG	Function	1
B_lcd.pde	lcdConfigRtxAddress	address	The CIV address to be displayed on LCD during configuration as initial value	byte	FUNC ARG	Function	1
B_lcd.pde	lcdConfigRtxAddress	clearLcd	if true, redraw the entire display	boolean	FUNC ARG	Function	1
B_lcd.pde	lcdConfigIC735Mode	value	Currently IC735 mode status	boolean	FUNC ARG	Function	1
B_lcd.pde	lcdConfigIC735Mode	clearLcd	if true, redraw the entire display	boolean	FUNC ARG	Function	1
B_lcd.pde	lcdConfigBandToAntenna	bandIndex	The band being configured to be printed on LCD	byte	FUNC ARG	Function	1
B_lcd.pde	lcdConfigBandToAntenna	antennaIndex	an index to bandToAnt[] array	byte	FUNC ARG	Function	1
B_lcd.pde	lcdConfigBandToAntenna	bandScrolling	True if scrolling bands (first setup step), else false when scrolling antennas (second setup step)	boolean	FUNC ARG	Function	1
B_lcd.pde	lcdConfigBandToAntenna	clearLcd	if true, redraw the entire display	boolean	FUNC ARG	Function	1
B_lcd.pde	lcdConfigAntennaName	antennaIndex	An index to bandToAnt[] array	byte	FUNC ARG	Function	1
B_lcd.pde	lcdConfigAntennaName	antScrolling	True if scrolling antennas (first setup step), else false when scrolling antenna name (second setup step)	boolean	FUNC ARG	Function	1
B_lcd.pde	lcdConfigAntennaName	newName[]	New antenna name to be printed on LCD	char array	FUNC ARG	Function	9
B_lcd.pde	lcdConfigAntennaName	charPosition	position of char being configured (used for blinking)	byte	FUNC ARG	Function	1
B_lcd.pde	lcdConfigAntennaName	clearLcd	if true, redraw the entire display	boolean	FUNC ARG	Function	1
B_lcd.pde	displayMessage	message	0x00 for led off, 0x08 blinks, !0x00 on	byte	FUNC ARG	Function	1
B_lcd.pde	lcdCurrentConfigItem	menuIndex	a pointer to menuConfigItems title to be printed on LCD	byte	FUNC ARG	Function	1
B_lcd.pde	lcdClearRow	rowID	0 – clear first row. 1 – clear second row	byte	FUNC ARG	Function	1
B_lcd.pde	lcdPrintAction	action	0 – print * CANCEL. 1 – Print * SAVED	byte	FUNC ARG	Function	1
C_EEPROM.pde	readConfig	i	Generic index – in a for	int	LOCAL	Block	2
C_EEPROM.pde	saveConfig	i	Generic index – in a for	int	LOCAL	Block	2
D_CIV.pde	readCIVData	freqWin[]	A fixed size sliding window for storing chars received from serial interface	byte array	STATIC	Function	12
D_CIV.pde	readCIVData	serBuffer	Stores the current size of Arduino Serial buffer	byte	LOCAL	Function	1
D_CIV.pde	readCIVData	i	Generic index – in a for	int	LOCAL	Block	2
D_CIV.pde	readCIVData	j	Generic index – in a for	int	LOCAL	Block	2

Source File	Declared within	Name	Description	type	Modifier specifier	Scope	Size (in bytes)
D_CIV.pde	isFreqData	i	Index indicating if we have to start from position 0 or position 1 in the sliding window data received from serial attempting to find valid frequency data	int	LOCAL	Function	2
D_CIV.pde	decodeFrequency	dataFreq	Temp variable to store frequency value during calculation	unsigned long	LOCAL	Function	4
D_CIV.pde	decodeFrequency	i	Index indicating if we have to start from position 0 or position 1 in the sliding window data received from serial attempting to find valid frequency data	int	LOCAL	Function	2
D_CIV.pde	readCIVData	civFreq	Current frequency in Khz (used to return valid value when no frequency data is received on CIV)	unsigned int	FUNC ARG	Function	2
D_CIV.pde	isFreqData	freqCIVData[]	A "sliding window" array containing chars received from serial	byte array	FUNC ARG	Function	12
D_CIV.pde	decodeFrequency	freqCIVData[]	A "sliding window" array containing chars received from serial	byte array	FUNC ARG	Function	12
D_CIV.pde	decodeFrequency	defFreq	Current Frequency. Used as return value when no valid freq data is found in sliding window	unsigned int	FUNC ARG	Function	2
E_io.pde	readKey	keyValue1	Analog input value – first pass	int	LOCAL	Function	2
E_io.pde	readKey	keyValue2	Analog input value – second pass	int	LOCAL	Function	2
E_io.pde	readKey	oldKeyStatus	Previous key state. Used to start/stop repeating	byte	STATIC	Function	1
E_io.pde	readKey	tmpKey	Temp var for storing keypad value	byte	LOCAL	Function	1
E_io.pde	readKey	repeating	True if repeating is enabled (i.e. move quickly within valid values for an option), otherwise false.	boolean	STATIC	Function	1
E_io.pde	readKey	keyLastStatusTimestamp	A timestamp (based on arduino clock) storing when last key was pressed (used for start repeating)	unsigned long	STATIC	Function	4
E_io.pde	switchAntenna	txValue1	Analog input for TX PIN – first pass	int	LOCAL	Function	2
E_io.pde	switchAntenna	txValue1	Analog input for TX PIN – second pass	int	LOCAL	Function	2
E_io.pde	switchAntenna	startBlinking	A timestamp (based on arduino clock) storing when the message led was turned ON (used for blinking when in manual mode)	unsigned long	STATIC	Function	4
E_io.pde	switchAntenna	blinkStatus	True when MESSAGE LED is on, otherwise False	boolean	STATIC	Function	1
E_io.pde	switchAntenna	bandIndex	Index for bandMeters[] array for the currently selected band	byte	FUNC ARG	Function	1
E_io.pde	switchAntenna	upOrDown	+1 for up, -1 for down, 0xFF01 for auto mode enable, 0xFF00 for manual mode enable & no switching required	int	FUNC ARG	Function	2
E_io.pde	switchAntenna	selAntenna	The currently selected antenna	byte	FUNC ARG	Function	1
E_io.pde	warningLed	message	0x00 for led off, 0x08 blinks, !0x00 on	byte	FUNC ARG	Function	1
F_miscFunctions.pde	decodeBand	divResult	Stores the result of a division	int	LOCAL	Function	2
F_miscFunctions.pde	decodeBand	bandInteger	Return value for this funcion	byte	LOCAL	Function	1
F_miscFunctions.pde	decodeBand	i	Generic index – in a for	int	LOCAL	Block	2
F_miscFunctions.pde	initDefaults	i	Generic index – in a for	int	LOCAL	Block	2
F_miscFunctions.pde	initDefaults	i	Generic index – in a for	int	LOCAL	Block	2
F_miscFunctions.pde	checkErrors	tmpStatus	Temp var for storing box status	byte	LOCAL	Function	1
F_miscFunctions.pde	checkErrors	timestamp	A timestamp (based on arduino clock) storing when last CIV data was received (used for setting a warning when no data has been received)	unsigned long	STATIC	Function	4
F_miscFunctions.pde	checkErrors	oldFreq	Stores the old frequency. Used for updating timestamp only when a frequency change has occurred	unsigned int	STATIC	Function	2
F_miscFunctions.pde	decodeBand	freqItem	the frequency in Khz	unsigned int	FUNC ARG	Function	2
F_miscFunctions.pde	checkErrors	bandIndex	Index for bandMeters[] array for the currently selected band	byte	FUNC ARG	Function	1
F_miscFunctions.pde	checkErrors	antenna	Currently selected antenna	byte	FUNC ARG	Function	1
F_miscFunctions.pde	checkErrors	curFreq	Current frequency in Khz	unsigned int	FUNC ARG	Function	2
F_miscFunctions.pde	checkErrors	automatic	Boolean for auto mode (true) or manual mode (false)	boolean	FUNC ARG	Function	1

Total STATIC	**49**
Total GLOBAL	**87**
Total CONST	**329**
.data or .bss Memory Segment	**465**

Total FUNC ARG	**75**
Total LOCAL	**91**
Heap Memory Segment	**166**