



INDUSTRIAL RS485 MODEM - Parameter Description v2.51
Transparent mode firmware

Configuration file Parameter Name	WM-E Term Parameter Group	WM-E Term Parameter Name	Default value (recommended factory default values)	Measurement unit/entry type	Comment	Description for the Customer	
eventpush_addr	AMM (IEC)/Transp. Mode	Event push address	-	Phone nr. Or IP address	Destination IP address of alarm push (SMS/FTP/TC/UDP)	Add the notification phone number or IP address to the Event push address field in international format.	
eventpush_sms_text		Event push SMS text	Input changed	text	In case of input change event, the SMS notification text	Add the notification text for input signal change detection event.	
eventpush_sms_ignore		Event push SMS ignore until [sec]	-	seconds	Event push notification sending will be ignored/postponed until the declared interval	Event push notification sending will be ignored/postponed until the declared interval	
eventpush_sms_lost_text		LastGASP lost SMS text notification	Power lost	text	In case of power outage (lower loss) event, the SMS alarm notification text	Add the alarm notification text for occurred power loss detection event.	
eventpush_sms_return_text		LastGASP return SMS text notification	Power return	text	In case of release of power outage (end of power loss) event, the SMS alarm notification text	Add the alarm notification text for occurred power return detection event.	
ei_client_user		Ei client username	-	username (text, numbers)	Ei address username	Define the Ei client's username for the connection IP address.	
ei_client_pass		Ei client password	-	password	Ei address password	Define the Ei client's password for the username of the connection IP address.	
ei_client_addr		IP address	-	IP address	IP address	AMM (EiServer) IP address (ftp client IP)	Here you can define the remote server's IP address where the data will be transmitted through the wireless network.
ei_client_auth_mode		Ei client authentication mode	-	SELECTION	Ei client authentication mode	A remote device can be connected to the modem and readout data - here you can select authentication mode Values: N - no authentication E - Ei authentication - you have to define the username / password	
ei_client_port		Server port	0	Port number	AMM (EiServer) port (ftp client port)	Define the port number of the server IP address	
ei_client_deployed	Auto register	0	Checkbox to enable/disable	Automatic registration to the address*	In case of data push send automatically or not 0 is false, 1 is true * Not used		
ei_client_interval_fast	Poll interval fast (not deployed)	30	seconds	Poll interval fast (not deployed)*	Value of Poll interval fast (not deployed) * Not used		
ei_client_interval_slow	Poll-interval slow (deployed)	30	seconds	Poll-interval slow (deployed)*	Value of Poll-interval slow (deployed) * Not used		
ei_client_tcp_keepalive	Ei client TCP keep alive	10	minutes	Ei client TCP keep alive (in minutes)	Keeps the Ei client connection alive for the defined time range		
datapush_host	Data push host	-	ftp path/URL with credentials	Data push address (for SMS/FTP/TC/UDP)	FTP server address and connection parameters - as protocol, IP address as user and password.		
datapush_iec_address	Data push IEC address	-	IP address	Data push IEC address (source meter address)	FTP server IP address - usage: datapush.host = <protocol>://<user>:<password>@<ip address>/<directory>		
datapush_max_retries	Data push max retries	3	number	Data push max retries (in case of failure)*	The Data push (ftp) parameters are here if you wish to use the data push service for the modem (as Data push IEC address as the source meter address and the ftp server IP address (Data Push Host)). Number of retries of data push operation in case of failure		
datapush_timeout	Data push timeout	15000	milliseconds	Data push timeout	Interval of data / FTP push connection wait - it waits until the declared interval whether it was successful or not *Not in use		
datapush_interval	Data push interval	86400	seconds	Data push interval	Interval of next data / FTP push connection trying - the data push will be inactive until the interval spent and then it will try again (if Data push max retries was not exceeded)		
com_apn_name	APN	APN Server name	wm2m	name (text, APN allowed chars)	APN Server name	APN Server name - ask your mobile operator (of the SIM)	
com_apn_pass		APN Password	-	password	APN Password	APN Password - if you mobile operator / APN requires	
com_auto_user		Create APN username automatically	0	Checkbox to enable/disable	Create APN username automatically	0 = off implemented, 1 = not implemented in standard FW * Not used	
com_auto_pass		Create APN password automatically	0	Checkbox to enable/disable	Create APN password automatically	0 = off implemented, 1 = not implemented in standard FW * Not used	
pdp_delay	STATUS	PDP connection establishment delay [min]	0	minutes	Wait time before PDP activation*	Delay	
pdp01_apn_user		PDP APN Name	-	READ ONLY	PDP APN Name	Status value	
pdp01_apn_pass		PDP APN Password	-	READ ONLY	PDP APN Password	Status value	
last_imei		IMEI Address	-	READ ONLY	IMEI Address	Status value	
last_iccid		ICCID identifier	-	READ ONLY	ICCID identifier	Status value	
last_model		Telit module type	-	READ ONLY	Telit module type	Status value	
last_revlon		Telit module firmware version	-	READ ONLY	Telit module firmware version	Status value	
smg_always_on	M2M	GPRS always ON	1	Checkbox to enable/disable	Connects to PDP only if it is „push“, in any other case the GPRS part is inactive (for FTP push or UDP/TC/CP push)	Check in the field, if it was empty (if it's empty it will be always online) Values: 1 = on, 0=off value for triggering only	
smg_connect_on_timer		Connection timer	0	Checkbox to enable/disable	Connection timer	Choose the Connection timer - only if you are not using the GPRS always ON option (when it is disabled) Values: 1 = on, 0=off value	
smg_connect_start		Start GPRS connection	FFFFFFFF000000	HH-MM-SS	Start GPRS connection - if the „GPRS Always ON“ parameter was set to 0, then here can be defined a date/time when it will push the data	Schedule of starting the GPRS connection / data push First part "FFFFFFFF" - the date Second part "000000" is the HHMMSS time format	
smg_connect_interval		Additional delay-time	0	seconds	Additional delay interval before alarm push	Delay-time interval definition in case of using "push" to give some delay for build-up the connection. Will be valid only if the „GPRS Always ON“ parameter was set to 0	
smg_disconnect_delay		Hold-time of GPRS connection	0	seconds	After alarm push, the PDP context will be deactivated and disconnected after this defined interval.	Will be valid only if the „GPRS Always ON“ parameter was set to 0	
tm_server_port		Port for transparent (IEC) meter-readout	9000	Port number	Port for transparent (IEC) meter-readout	Define the Port for transparent (IEC) meter-readout. Note that must be different from the Download config and firmware port number.	
fw_server_port		Port for download config and firmware	9001	Port number	Port for transparent config and firmware	Define Port for download config and firmware. Note that must be different from Transparent IEC meter-readout port number	
com_max_retries		Number of GPRS connection attempts till module-reset	15	number	Number of GPRS connection attempts till module-reset	Number of maximum GPRS (PDP) connection attempts till module-reset	
com_retry_delay_rewind		Waiting time until next try	1	seconds	Waiting time until next network connection attempt*	If the PDP context activation was not successful, then it will wait until for the defined interval to the re-activation If that reached the end of the Time(s) [secs] between „GPRS connection attempts“ parameter value timeout, it goes back to the list, otherwise it is not used. * not implemented	
com_encrypt_pass		Encrypt password via MDS algorithm	0	Checkbox to enable/disable	Encrypt password via MDS algorithm	Encrypt password via MDS algorithm Values: 0 = false, 1 = true * not used	
com_retry_delay	Time(s) [secs] between GPRS connection attempts	15,15,300,15,15,300,15,15,3600	seconds	Time(s) [secs] between GPRS connection attempts	If the PDP context activation was not successful, it will delay the reconnection according to the listing		
com_ping_host	Ping IP-address	8.8.8.8	IP address	Ping IP-address	IPv4 address to ping (for checking the cellular connection health)		
com_ping_max_retries	Number of ping-retries	3	number	Number of retries of checking the cellular network availability	Number of retries of checking the cellular network availability		
com_ping_timeout	Ping-wait-time (for reply)	15000	milliseconds	Ping-wait-time (for reply)	Timeout of ping interval (for checking the cellular network availability)		
com_ping_interval	Wait-time (for next)	86400	seconds	Wait-time (for next ping)	Interval (wait-time) between ping cycles, time interval until the next ping sequence occurring (for checking the cellular network availability)		
com_no_network_timeout	Timeout at GPRS login fail	30	minutes	Timeout when GPRS (PDP) login fail	Timeout when GPRS (PDP) login fail occurs - tolerance interval of PDP connection establishment error		
smg_box_timeout	Wait-time till module-reset [hours]	24	hours	Module restart after this interval	Module restart after this interval		
smg_restart_time	Daily restart on a fix, parametrised time, HHMM	-	HHMM	Daily restart on a fix, parametrised time, HHMM	Daily restart on a fix, parametrised time, value in HHMM format. If you attempt to define a daily restart interval for the device - add the HHMM value of the time of the device restart. Leave it empty if you do not allow the device to restart every day.		
com_reconnect_interval	Seconds, gprs connection closed and restored after this time	0	seconds	GPRS connection closed and restored after this time	Waiting interval between PDP connection establishment, the value is also used for ping. If the ping is configured (Ping wait-time (for reply) parameter), then the defined interval / repeat time will be used for automatic reconnection after the given delay has elapsed. Here you can define that after the network drops out the modem, how long does the modem wait before trying to reconnect to the mobile network again. Ask your mobile provider about the offered settings. Note that if you set this parameter to a low value that can cause frequent network reconnections. Therefore under no circumstances should you set this value lower than what your mobile service provider recommends. (e.g. there are mobile network providers that limit the number of times a modem can log on to the network in a given time). Default value: 0		
com_dss_apn_name	WATCHDOG	APN server name for device services session	-	name (text, APN allowed chars)	APN server name for device services session (FTP OTA)	Telit module FOTA support	
com_dss_apn_user		APN user name for device services session	-	username (text, numbers)	APN user name for device services session (FTP OTA)	Telit module FOTA support	
com_dss_apn_pass		APN password for device services session	-	password	APN password for device services session (FTP OTA)	APN Password - if you mobile operator / APN requires	
com_dss_ws46		Cellular network access technology selection (LTE, 3G, 2G mode) for FOTA	25	special syntax	Cellular network access technology selection (LTE, 3G, 2G mode) for FOTA	Here you can select a dedicated network for FOTA firmware updates or in case of availability of fallback channel you can choose that, or there is the opportunity to choose "all available access technology" Values: * "2G only" - Value: 12 * "3G only" - Value: 22 * "all available access technology (Default)" - Value: 25 * "LTE only (default on LTE Cat 1. modems)" - Value: 28 * "3G to 2G (Fallback)" - Value: 29 * "LTE to 2G (Fallback)" - Value: 30 * "LTE to 3G (Fallback)" - Value: 31 Note that the listed modes are not available for all modem type. The marked modes are only available if the cellular network access technology mode is supported by the current module. We do recommend to use the following settings for the Cat.NB / Cat.M modem: "LTE only (default on LTE Cat 1. modems)" option, Value: 28 You can also refine the settings and to use the following values to select IoT technology: -28.0 (use the Cat.M1 network) -28.1 (use the NB-IoT / Narrow Band network) -28.2 (use Cat.M1 and NB-IoT technology) For LTE 4G modems we offer to choose the „LTE to 2G (Fallback)“ value 30 - if the fallback channel is supported on the modem or the LTE to 3G fallback (Value: 31) if it is supported. If the "all available network" option is supported by the modem and it was chosen, the modem will try to register to the last successful technology.	
com_dss_ftpotr_retry	FTP OTA retry	0	number	FTP Firmware refresh (OTA) retry	Telit module FOTA support		
com_dss_ftpotr_par	FTP-OTA parameter (Server address, filename, path)	-	ftp path/URL with credentials	FTP OTA parameters (FTP host, user/pass, path, filename) Like: FTP server IP address - usage: datapush.host = <protocol>://<user>:<password>@<ip address>/<directory>	Telit module FOTA support		
com_dss_ftpotr_status	FTP OTA status	-	READ ONLY	FTP OTA status	Telit module FOTA support Status information of the current FTP OTA status		

conn_at_wmbs	CELLULAR NETWORK	Band frequency configuration	-1	list code	Band frequency configuration according to the selected cellular network access technology	<p>WMBS tab: 2G, 3G, LTE, ... access cellular network technology selection. Here you can select a dedicated network or in case of availability of fallback channel you can choose that, or there is the opportunity to choose "All available access technology"</p> <p>Here you can select a dedicated network for FOTA firmware updates or in case of availability of fallback channel you can choose that, or there is the opportunity to choose "All available access technology"</p> <p>Values:</p> <ul style="list-style-type: none"> * "leave the cellular technology on the last used technology without changing" - Value: -1 * "2G only" - Value: 12 * "3G only" - Value: 22 * "All available access technology (Default)" - Value: 25 * "LTE only (default on LTE Cat. 1, modems)" - Value: 28 * "3G to 2G (Fallback)" - Value: 29 * "LTE to 2G (Fallback)" - Value: 30 * "LTE to 3G (Fallback)" - Value: 31 <p>Note that the listed modes are not available for all modem type. The marked modes are only available if the cellular network access technology mode is supported by the current module.</p> <p>We do recommend to use the following settings for the Cat.NB / Cat.M modem: "LTE only (default on LTE Cat. 1, modems)" option, Value: 28</p> <p>You can also refine the settings and to use the following values to select IoT technology:</p> <ul style="list-style-type: none"> -28.0 (use the Cat.M1 network) -28.1 (use the NB-IoT / Narrow Band network) -28.2 (use Cat.M1 and NB-IoT technology) <p>For LTE 4G modems we offer to choose the "LTE to 2G (Fallback)" value 30 - if the fallback channel is supported on the modem or the LTE to 3G fallback (value: 31) if it is supported</p> <p>If the "all available network" option is supported by the modem and it was chosen, the modem will try to register to the last successful technology.</p>
conn_cib		Type of incoming calls when no incoming bearer is specified	0	SELECTION	Barrier type of incoming calls when no incoming bearer is specified	It is necessary for CBST and CSNS commands CICB tab. Values: 0 = voice, 2 = fax, 4 = data
conn_rings		Number of ring before accept call	3	number	Number of ring attempts	Waits for the defined number of rings before accepting the data call (CS2)
csd_password		Password for CSD call	-	password	Password for CSD call (login pass for call and SMS)	Login pass for call and SMS
sim_pin_code		PIN number (SIM card)	-	PIN code	PIN number (SIM card)	PIN code of the SIM card - ask your mobile provider
conn_at_cops		Provider selection mode (roaming)	-	SELECTION	Provider selection-mode (roaming)	Cellular network provider change parameter. Syntax in file: mode, format, operator
calendar_dst_begin		Start daylight saving	FFFF03FED7020000003C	Date/Time	Start daylight saving (summer) - DST start date/time	Start date of daylight saving (summer) in hexadecimal format
calendar_dst_end		End daylight saving (winter)	FFFF04FED70300000078	Date/Time	End daylight saving (winter) - DST start date/time	End date of daylight saving (winter) in hexadecimal format
calendar_dst_enabled		Switching daylight saving time / normal time	1	Checkbox to enable/disable	Switching daylight saving time / normal time - DST enablement	You can switch on or off the daylight saving time / normal time handle Values: 0 = false, 1 = true
calendar_dst_deviation		Offset daylight-saving-time in minutes	60	minutes	Offset daylight-saving-time in minutes (Compared to DST)	GMT offset of daylight saving time handle (in minutes)
calendar_timezone	Deviation of local time to GMT	60	minutes	Deviation of local time to GMT	GMT deviation of daylight saving time handle (in minutes)	
led1	Meaning of LED 1	1	SELECTION	Meaning of LED 1	LED tab - selecting the nr. of LED meaning in the LED selection list	
led2	Meaning of LED 2	6	SELECTION	Meaning of LED 2	LED tab - selecting the nr. of LED meaning in the LED selection list	
led3	Meaning of LED 3	4	SELECTION	Meaning of LED 3	LED tab - selecting the nr. of LED meaning in the LED selection list	
led4	Meaning of LED 4	0	SELECTION	Meaning of LED 4	LED tab - selecting the nr. of LED meaning in the LED selection list	
led5	Meaning of LED 5	30	SELECTION	Meaning of LED 5	LED tab - selecting the nr. of LED meaning in the LED selection list	
led6	Meaning of LED 6	2	SELECTION	Meaning of LED 6	LED tab - selecting the nr. of LED meaning in the LED selection list	
emeter_data_format	Date format for read out	YYMMDD	Date	IEC date format for readout (YYMMDD)	Date format / syntax for read out (YYMMDD)	
int_version	Version number of config file	-	Text	Version number of config file	*Not used	
dmset.am100.typekey	Type key of AM100 corresponding to the name plate	-	Text	Type key of AM100 corresponding to the name plate	*Not used	
smi_init	Meter interface init values	-	-	WM-E2S meter interface settings*	* Not used * Only for WM-E2S	
fw_server_baud	Configuration port settings	-	String	Configuration interface speed rate and operation mode	* Available only on WM-E2S-TNB modem	
smi_relay	Relay control	-	SELECTION	Relay control for e-meter	Values: T1, T2, T3, T4 * Only for WM-E2S CI R relay version	
snmp_nta_mode	Multi utility mode (DLMS active)	1	SELECTION	Multi utility mode (DLMS active) - Activates the E-meter LED	Values: 1= transparent mode, 2 = multi-utility mode * Transparent mode implemented only	
tm_tls_enable	Transparent mode TLS enable	1	Checkbox to enable/disable	Enable TLS encrypted communication	0= TLS disabled 1= TLS enabled	
tm_mode8n1	Data format for 8N1 for meters, that fix on 8N1	0	Checkbox to enable/disable	Data mode for emeter serial port (select 8N1 or 7E1)	0= Non (N1), 1= 7E1	
tm_cert	Transparent mode certificate bank select	0	Number	Transparent mode certificate bank selection	1=Yes, 0=no	
tm_use_crl	Transparent mode CRL usage	0	Checkbox to enable/disable	Transparent mode CRL (Certificate Revolve List) usage	1=Yes, 0=no	
tm_ca_cert	Transparent CA certificate bank select	0	Number	Transparent CA certificate bank selection	1=Yes, 0=no	
tm_baud	Meter port baud rate (for transparent mode and meter readout)	9600	Baudrate (bps)	E-meter serial port speed (during readout)	Values (in bps) can be: 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 56100, 115200 Recommended: 9600 (bps)	
tm_verify	Transparent mode certificate verification	0	SELECTION	Transparent mode certificate verification	0=No, 1=Optional, 2=Mandatory	
tm2_port	Secondary transparent port	9002	Port number	Secondary transparent socket port	Secondary transparent port number	
tm2_baud	Secondary transparent baudrate	2418	Baudrate (bps)	Secondary transparent baudrate	Secondary transparent baudrate (speed rate in bps)	
dcd_mode	DCD mode	3	SELECTION	to configure DCD control mode	Available DCD modes: 0=No, 1=Standard, 2=Inverted	
rs485_mode	RS485 mode	0	SELECTION	RS485 wiring type	0=RS232 only, 1=2-wire RS485, 2=4-wire RS485	
dm_tls_enable	Device Manager TLS enable	0	Checkbox to enable/disable	Device Manager TLS enable	1=Yes, 0=no	
dm_server	Device Manager server IP address	-	IP address	Device Manager server IP address	Remote Device Manager server IP	
dm_port	Device Manager server port	0	Port number	Device Manager server port	Device Manager server port number	
dm_push_enable	Device Manager push enable	0	Checkbox to enable/disable	Device Manager CRL (Certification Revolve List) usage	1=Yes, 0=no	
dm_push_interval	Device Manager push interval [sec]	130	number	Device Manager push interval	DM data "push" cycle / interval value in seconds	
dm_cert	Device Manager certificate bank	0	Number	Device Manager certificate bank selection	1=Yes, 0=no	
dm_use_crl	Device Manager CRL usage	0	Checkbox to enable/disable	Device Manager CRL (Certification Revolve List) usage	1=Yes, 0=no	
dm_verify	Device Manager certification verification	0	SELECTION	Transparent mode certificate verification	0=No, 1=Optional, 2=Mandatory	
dm_ca_cert	Device Manager CA certificate bank	0	Number	Device Manager CA certificate bank selection	1=Yes, 0=no	