

INVENTIA Telemetry Modules, Expanders & Converters

Features	Model	MT-101 Telemetry Module	MT-102 Telemetry Module	MT-201 Telemetry Module	MT-301 Telemetry Module	MT-302 Telemetry Module	MT-303 Telemetry Module	MT-304 Telemetry Module	MT-411 Telemetry Module	MT-502 Telemetry Module	MT-703 Telemetry Module	MT-711 Telemetry Module	MT-713 Telemetry Module	ML-211 Localization Module	EX-101 Expander	RM-120 RS232/M-Bus Converter
I/O resources									PRELIMINARY	PRELIMINARY		PRELIMINARY	PRELIMINARY	PRELIMINARY		
Binary inputs		8...16 ¹⁾	0...8 ¹⁾	-	4	8	6	7	4	8	2	5	5	5	8...16 ¹⁾	-
Binary outputs		0...8 ¹⁾	0...8 ¹⁾	-	2	-	2	-	1	2	-	-	-	2 ¹⁾	0...8 ¹⁾	-
Counter inputs		8...16 ^{1,2)}	0...8 ^{1,2)}	-	4 ³⁾	8 ³⁾	6 ³⁾	7 ³⁾	-	-	2	5	5	2 ^{1,3)}	8...16 ^{1,2)}	-
Analog inputs		2	6	-	2	-	-	1	-	-	2	3	3	1	2	-
Analog outputs		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-wire input		-	-	YES	-	-	-	-	-	-	-	-	-	YES	-	-
Real Time Clock (RTC)		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-
Serial port RS232/422/485		1	1	1	-	-	-	-	1	1 ⁴⁾	-	-	-	-	1	1 ¹²⁾
Dedicated configuration port		RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	USB	RS-232	USB	USB	USB	USB	RS-232	-
Voice channel		-	-	-	-	-	-	-	-	YES	-	-	-	YES ¹⁰⁾	-	-
Functionality									PRELIMINARY	PRELIMINARY		PRELIMINARY	PRELIMINARY	PRELIMINARY		
Local configuration via RS232/USB		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-
Remote configuration over GPRS		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES ¹³⁾	YES ¹³⁾	YES ¹³⁾	YES	YES ⁵⁾	-
Unsolicited messaging		YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-
Data packet sending		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-
SMS sending		YES ⁶⁾	YES ⁶⁾	-	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-
CLIP		YES	YES	-	YES	YES	YES	YES	-	YES	-	-	-	-	-	-
Local control programming		YES	YES	-	-	-	-	-	YES	-	-	-	-	-	YES	-
Standard serial protocols ⁷⁾		YES	YES	YES	-	-	-	-	YES	-	-	-	-	-	YES	-
Data packet routing		YES	YES	YES	-	-	-	-	YES	-	-	-	-	-	-	-
Manual alarm setting for analog inputs		YES	YES ⁸⁾	-	-	-	-	-	-	-	-	-	-	-	YES	-
Number of analog input alarm levels		6	4/6	-	4	-	-	1	-	-	4	4	4	-	4/6	-
Configurable hysteresis		YES	YES	-	YES	-	-	YES	-	-	YES	YES	YES	-	YES	-
Remote read/write with SMS		YES	YES	-	YES	YES	YES	YES	-	-	YES	YES	YES	YES	-	-
Access control		YES ⁹⁾	YES ⁹⁾	YES ⁹⁾	YES ⁹⁾	YES ⁹⁾	YES ⁹⁾	YES ⁹⁾	YES ⁹⁾	YES ⁹⁾	YES ⁹⁾	YES ⁹⁾	YES ⁹⁾	YES ⁹⁾	-	-
Local mirroring of external resources		YES	YES	-	-	-	-	-	YES	-	-	-	-	-	-	-
Datalogger		YES	YES	-	-	-	-	-	YES	-	YES	YES	YES	YES	-	-
MT-DP compatibility (OPC, CSV, ODBC)		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-
Remote firmware upgrade over GPRS		YES	YES	YES	-	-	-	-	YES	-	-	-	-	YES	-	-
Other									PRELIMINARY	PRELIMINARY		PRELIMINARY	PRELIMINARY	PRELIMINARY		
Integral GSM/GPRS modem		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-
Integral GPS receiver		-	-	-	-	-	-	-	-	-	-	-	YES ¹⁰⁾	YES	-	-
DC power supply (V)		10,8...36	10,8...36	10,8...36	9...30	9...30	9...30	9...30	9...30	9...30	int. 4,5	int. 4,5	int. 3,6	9...30	10,8...36	21,6...42
AC power supply (Vrms)		18...26,4	18...26,4	18...26,4	-	-	-	-	-	-	-	-	-	-	18...26,4	-
Power supply monitoring input		YES	YES	YES	-	-	-	-	YES	-	YES	YES	YES	YES	YES	-
Internal rechargeable battery		-	-	-	YES	YES	YES	YES	-	-	-	-	-	YES ¹⁰⁾	-	-
Internal battery		-	-	-	-	-	-	-	-	-	3(6)xR20	3xR20	Lithium R20	-	-	-
Low power operation modes		-	-	-	-	-	-	-	-	-	YES	YES	YES	YES	-	-
External antenna connector		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-
Protection class		IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP67	IP68	IP67	IP40	IP40	IP40
Operating temperature range (°C)		-20...+55	-20...+55	-20...+55	0...+55	0...+55	0...+55	0...+55	-20...+55	-20...+55	-20...+55	-20...+55	-20...+55	-20...+55	-20...+55	-20...+55
Removable terminal blocks		YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-	-	YES	YES	YES
DIN rail mounting		YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-	-	-	YES	YES
Availability		Available	Available	Available	Available	Available	Available	Available	Q3/07	Q3/07	Available	Q3/07	Q3/07	Q3/07	Available	Available

1) - number of binary inputs/outputs and counter inputs is configurable
 2) - fmax < 100Hz
 3) - fmax = 2,5Hz
 4) - only RS232
 5) - if connected to MT-101/102

6) - with dynamic variable value insertion
 7) - Modbus RTU Master/Slave, transparent mode, other...
 8) - for 2 inputs
 9) - password + internal list of authorized IP and telephone numbers
 10) - option

11) - general purpose and/or power up for external sensors
 12) - RS-232 to M-Bus converter
 13) - requires MTSpooler