

Tixi Alarm Modem

DIN-rail-housing

Analog / ISDN / ISDN & Fax / GSM



Intelligent Modem for

- Remote Maintenance
- Alarming
- Data Logging
- Remote Control

via

- Email
- Express-Email
- Fax
- SMS

Tixi Alarm Modems I/O-Overview

x = M, D, F M: Analog Modem 56k, D: ISDN, F: ISDN & Fax Modem / G: GSM / PS = power supply, max. A

Modem	PS / max. A	RS232-F	RS232-M	RS485/422	Digital-Inputs	Digital-Outputs	Analog-Input	Relay
Hx10	1	yes	-	-	-	-	-	-
Hx11	1	yes	yes	-	-	-	-	-
Hx17	1	yes	yes	-	2	2	1	1
Hx41	2	yes	-	yes	-	-	-	-
Hx47	2	yes	-	yes	2	2	1	1
HG20	2	yes	-	-	-	-	-	-
HG21	2	yes	yes	-	-	-	-	-
HG27	2	yes	yes	-	2	2	1	1
HG41	2	yes	-	yes	-	-	-	-
HG47	2	yes	-	yes	2	2	1	1

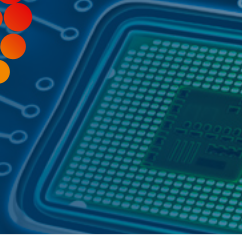
Tixi Alarm Modem 56k

2 MB Data Memory, SMS, Express-Email, Fax, Email

HM10	Tixi Alarm Modem 56k + 1 x RS232 1 x RS232-F, 1 x RJ11
HM11	Tixi Alarm Modem 56k + 2 x RS232 1 x RS232-F, 1 x RS232-M, 1 x RJ11
HM17	Tixi Alarm Modem 56k + 2 x RS232 + 6 I/Os 1 x RS232-F, 1 x RS232-M, 1 x RJ11 2 x digital input, 2 x digital output, 1 x analog input, 1 x relay
HM41	Tixi Alarm Modem 56k + 1 x RS485/422 1 x RS232-F, 1 x RS485/422, 1 x RJ11
HM47	Tixi Alarm Modem 56k + 1 x RS485/422 + 6 I/Os 1 x RS232-F, 1 x RS485/422, 1 x RJ11 2 x digital input, 2 x digital output, 1 x analog input, 1 x relay



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Tixi Alarm Modem GSM-EU (900/1800MHz)	
2 MB Data Memory, SMS, Express-Email, Fax , Email	
HG20	Tixi Alarm Modem GSM + 1 x RS232 1 x RS232-F
HG21	Tixi Alarm Modem GSM + 2 x RS232 1 x RS232-F, 1 x RS232-M
HG27	Tixi Alarm Modem GSM + 2 x RS232 + 6 I/Os 1 x RS232-F, 1 x RS232-M 2 x digital input, 2 x digital output, 1 x analog input, 1 x relay
HG41	Tixi Alarm Modem GSM + 1 x RS485/422 1 x RS232-F, 1 x RS485/422
HG47	Tixi Alarm Modem GSM + 1 x RS485/422 + 6 I/Os 1 x RS232-F, 1 x RS485/422 2 x digital input, 2 x digital output, 1 x analog input, 1 x relay

Tixi Alarm Modem ISDN	
2 MB Data Memory, SMS, Express-Email, Fax , Email	
HD10	Tixi Alarm Modem ISDN + 1 x RS232 1 x RS232-F, 1 x RJ45
HD11	Tixi Alarm Modem ISDN + 2 x RS232 1 x RS232-F, 1 x RS232-M, 1 x RJ45
HD17	Tixi Alarm Modem ISDN + 2 x RS232 + 6 I/Os 1 x RS232-F, 1 x RS232-M, 1 x RJ11 2 x digital input, 2 x digital output, 1 x analog input, 1 x relay
HD41	Tixi Alarm Modem ISDN + 1 x RS485/422 1 x RS232-F, 1 x RS485/422, 1 x RJ45
HD47	Tixi Alarm Modem ISDN + 1 x RS485/422 + 6 I/Os 1 x RS232-F, 1 x RS485/422, 1 x RJ45 2 x digital input, 2 x digital output, 1 x analog input, 1 x relay

Tixi Alarm Modem ISDN & Fax	
2 MB Data Memory, SMS, Express-Email, Fax , Email	
HF10	Tixi Alarm Modem ISDN & Fax + 1 x RS232 1 x RS232-F, 1 x RJ45
HF11	Tixi Alarm Modem ISDN & Fax + 2 x RS232 1 x RS232-F, 1 x RS232-M, 1 x RJ45
HF17	Tixi Alarm Modem ISDN & Fax + 2 x RS232 + 6 I/Os 1 x RS232-F, 1 x RS232-M, 1 x RJ11 2 x digital input, 2 x digital output, 1 x analog input, 1 x relay
HF41	Tixi Alarm Modem ISDN & Fax + 1 x RS485/422 1 x RS232-F, 1 x RS485/422, 1 x RJ45
HF47	Tixi Alarm Modem ISDN & Fax + 1 x RS485/422 + 6 I/Os 1 x RS232-F, 1 x RS485/422, 1 x RJ45 2 x digital input, 2 x digital output, 1 x analog input, 1 x relay

Mai 2004 Irrtümer und Technische Änderungen vorbehalten

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Main functions	
Remote dial-in / Teleservice	<p>Tixi Alarm Modems can be configured with a password via remote dial-in. You can also dial into a control unit via a Tixi Alarm Modem without having the control unit programmed for it.</p> <p>The R-Con Tixi-Software establishes a connection to a Tixi Modem and passes all data from the local RS232 to the RS232 of the remote Tixi, so that remote devices connected there can be operated as if connected locally.</p>
Fault detector	<p>Tixi Alarm Modem sends freely defineable messages, triggered by I/O ports of the Tixi Alarm Modem or through directly connected devices. Messages may be sent to a random number of recipients via fax, SMS, email and Express-Email.</p> <ul style="list-style-type: none"> • Transmission Receipts • Insertion of PLC variables into alarm messages • Alarm Cascading • Priorizing Messages
Data logger	<p>All events and variables can be stored in a log file with a time and date stamp for each entry and sent via email at specific times.</p> <p>Remote reading of the logged data possible via modemconnection.</p> <p>The logged data can be sent as a text message at predefined time (via the scheduler) to certain recipients. The data can be sent as</p> <ul style="list-style-type: none"> • Email via the internet • Express-Email • Fax
Telecontrol	<p>Incoming messages can trigger switching commands to output ports or in the PLC and then optionally notify or record the status of the Tixi modem and the connected devices. The switching commands, e.g. via SMS, may contain a password. A message can be generated and sent automatically via the successful or erroneous implementation of the commands.</p>
PLC-Protocols	<p>Tixi Alarm Modems communicate with the following PLCs using their respective protocols so that no programs, drivers or functional blocks have to be loaded into the PLCs. Tixi can read and write all important variables or ports of the PLC.</p> <p>Supported PLCs: Mitsubishi Alpha, MELSEC FX1, FX2, Moeller EASY relays 400-800,MFD, Siemens S7-200, VIPA 100V-300V, Allen Bradley, Pico, Saia Burgess PCD, Conrad C-Control I+II, ABB AC 010, AC 31, a.o.</p> <p>Industrial Bus Systems: Modbus (ASCII and RTU), M-Bus, CAN-Bus (coming soon)</p>

Communication Ways	
SMS	Sending and receiving of SMS SMS over land line: Deutsche Telekom, AnyWay (Germany, other countries on request) GSM: T-Mobile, Vodafone, E-Plus, O2 (Germany, other countries on request), Pager
Fax	Sending of Text Fax 2400 bps – 14,4 kbps ITU-T (V.17, V.29, V.27ter) Data compression: MNP2, V.42bis
Email	Sending and receiving email via SMTP and POP3 (Internet access and email account required)
Express-Email	Email without Internet, ie. email being sent via telephone lines directly from one Tixi Modem to another, including a receipt for the sender - without PC or with the PC switched off. Express-Email is as safe and reliable as sending a fax or commissioning a messenger
Pager	Cityruf (Germany)
Webserver	Built in web server to easy access Tixi Alarm Modem and PLC data with standard web browsers or from Internet application servers. HTML web server with push technology and CGI support. Data values could be read and changed. Complete and partial data logging files could be read out. Alarm messages could be automatically send to other Internet application servers. The web content is freely configurable as HTML, Java Applets, Flash, etc. Depending to the device type the Tixi Alarm Modem web server is accessible via telephone, ISDN, GSM dialup, GPRS, Ethernet. Optional available are auto connect Internet Machine-to-Machine (M2M) portals

System Architecture	
CPU	32-bit RISC Processor ARM7
Program Memory	2 MB Flash ROM, 1MB SRAM
Data / File Memory	2 MB NAND Flash memory on-board Data storage without operating voltage expandable with 32 MB, 64 MB (128 MB, 256 MB) NAND Flash Modules
System Clock	Real-time-clock with battery back-up, automatically time synchronisation via internet time server
Operating System	Commercial RTOS (real-time multitasking operating system) with C++ abstraction layer
Filesystem	Commercial DOS compatible Flash file system with true wear leveling to extend the life of the flash memory, with C++ abstraction layer

Modem Data	
PSTN / Analog Type HMxx	Analog telephone connection (a/b Interface), RJ11 data: 300bps – 56kbps ITU-T (V.90, V.34+, V.32bis, V.32, V.22bis, V.22, V.21), Bell 212A, Bell103 fax: 2400bps – 14,4kbps, ITU-T (V.17, V.29, V.27ter, V.21 ch2) Fax Group 3 / Class 1 error correction / data compression: V.42 / MNP 2-4, V.42bis / MNP5
ISDN Type HDxx	ISDN-BRI (Basic Rate Interface) S ₀ / I.430-Schnittstelle, RJ45 D-channel-protocol: DSS1 (Euro-ISDN) B-channel-protocol: HDLC transparent, X.75, T.70 NL, T.90 NL PPP synchronous-asynchronous, channel bundling ML-PPP
ISDN & Fax Type HFxx	like HDxx with faxmodem and fax- function: Fax: 2400 bps – 14,4kbps, ITU-T (V.17, V.29, V.27ter, V.21 ch2) error correction / data compression: V.42 / MNP 2-4, V.42bis / MNP5 Fax Group 3 / Class 1
GSM Type HGxx Antenna connection: Frequency range	GSM/GPRS-Class 10, Dual Band 900 / 1800 MHz Data: 300 – 14,4 kbps async., transparent / non-transparent ITU-T (V.21,V.22, V.22bis, V.26ter, V.32, V.34, V110) Fax: Fax Group 3 / Class 1 and 2. 2400 bps – 14,4 kbps ITU-T (V.17, V.29, V.27ter) data compression: MNP2, V.42bis FME-plug (male), coaxial, impedance 50 Ohm SIM-card reader Receiver frequency: 925 - 960 MHz, 1805 - 1880 MHz Transmission frequency: 880 - 915 MHz, 1710 - 1785 MHz

Interfaces	
RS232	RS 232 (1), D-Sub 9-pin, female / RS 232 (2), D-Sub 9-pin, male FIFO 16550, max. 230400 bps, Signals: DTR, DSR, RTS, CTS, DCD, GND, RI, RxD, TxD
RS485/422	RS 422/485 mit FIFO 16550, max. 10 Mbit/s terminator configurable via DIP-switch 5-pin screw terminal, pitch 5,08 mm, 2,5 mm ²
Digital Inputs	TTL compatible: logical 1 if U > 2,4 V (or open), logical 0 if U < 0,4 V (e.g. 0V/GND)
Digital Outputs	Potential free outputs, max load voltage AC/DC 125 V, load current 130 mA
Relay Output	230V AC, 3A
Analog Input	0 – 10V, 12 Bit resolution
Antenna connector (HGxx)	FME connector (male), co-axial, impedance 50 Ohm
Mechanical I/O Port	Screw terminal, pitch 5,08 mm, 2,5 mm ²

General Technical Data	
LEDs	Power, Process, Line, Data out, Modem Mode
Power Supply	HGxx 10 ... 30 VDC, max 0,7A (2 pin screw clamp, pitch 5,08mm, 2,5mm ²) or HMxx / HDxx / HFxx 10 - 30 V DC, max. 0,7 A, screw terminal
Dimensions / weight	DIN-Rail housing: 88 x 57 x 90 mm (BxHxT), weight: 165 g
Operating temperature	0 – 50 °C
Storage temperature	°C
Ambient temperature	°C

Conformity				
EMV / safety	CE, EN 50081-1, EN 50082-1, EN 55022, EN 60950, ETS 300342-1(GSM)			
Product-Code	HMxx	HDxx	HFxx	HGxx
Telecom	R&TTE, TS 103 021	R&TTE, TBR3, TBR3 A1		R&TTE TBR19, TBR31