

M76400 / M71400

Modem UMTS / GPS PHS8-P

Order-No: M76400 - UMTS/HSPA/GSM/GPRS/EDGE and GPS system with modem and omni-directional antenna M71400 - Modem

- Five Band UMTS/HSPA: 850/800, 900, 1900 and 2100 MHz
- Quad-Band GSM/GPRS/EDGE: 850, 900, 1800, 1900 MHz
- GPS
- SMS
- USB 2.0 high speed interface



The modem provides worldwide coverage and reliability even while roaming across different wireless network technologies. Two antenna pads enable diversity support allowing PHS8 to provide improved dataspeeds even under fluctuating 3G network conditions.

Air Interface	UMTS/HSPA/GSM/GPRS/EDGE	
Frequency Bands	850 / 800, 900, 1900, 2100 MHz	
GPRS	class 12	
GPRS data rate	max. 85.6 kbps (DL & UL)	
Power		
Supply Voltage	10 60 V	
Electrical connection	6-pole Western jack (use accessory cable)	
Interfaces		
USB	USB 2.0 high speed, type B	
Control	AT commands	
Antennas		
UMTS/GSM/GPRS antenna interface GPS antenna interface	FME SMA	
Impedance	50 Ω	
General		
Operational temperature	-30 °C +75°C	
Dimensions and weight	65 x 74 x 33 mm / approx. 110g	
Accessories		
GPS antenna USB cable Supply cable	Article No. M72400 Article No. M01210 Article No. M71041	

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PIN assignment of power supply jack

Signal	Plug Pin No.	Ammonit Cable Wire Colour
Power Supply	1	
Ignition	4	writte, green → +V
Supply Ground	6	blue
	2, 3, 5	Not connected



Please note: Ammonit offers directional and Yagi antennas as accessories.

LED status information

LED signal	Description
Permanent yellow light	Modem is powered. No USB connection available.
Permanent white light Modem is powered. USB connection established between modem ar card / with or without PIN entry). White LED light indicates a successfully establis	Modem is powered. USB connection established between modem and PC / data logger (with or without SIM card / with or without PIN entry). White LED light indicates a successfully established a data connection.
	The LED is not an indicator of proper communication behaviour of the modem.

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Configuration of frequency bands

The PHS8-P modem is a five band programmable gateway supporting 850 / 900 / 1800 / 1900 / 2100 MHz. If the modem has been purchased separately, it might be configured for working properly with Meteo-40.

🚔 Device Manager

In order to check the configuration of the frequency bands, connect the modem directly to your computer via USB. If you are using a Windows[™] PC and the modem is not displayed in the *Device Manager* under *Modems*, you require a driver file, which can be downloaded from our website (http://www.ammonit.com/) in the support section. On Linux[™], in general no driver file needs to be installed.

After installing the driver files, the *Cinterion USB Modem* should be displayed under *Ports (COM & LPT)* in the *Device Manager*. Disconnect the modem from your PC. After connecting the modem again, further *COM* ports are used by the modem.

Open a standard terminal program like *PuTTY* (http://www.putty.org/). Enter the COM port number from the *Cinterion PH8 HSPA USB Com Port* as *Serial line* and change *Parity* and *Flow control* to *None*. Open the PuTTY command window.

For listing the configuration enter: at^sdport?

Default setting of the modem should be: at^sdport=6

To work properly with Meteo-40, all interfaces have to be available, enter: at^sdport=3

Press *Enter* to finish the configuration. Restart the modem.

Testing GPS

Open a second PuTTY command window and connect the COM port number of the *Cinterion PH8 HSPA USB NMEA Com Port*. Go to the PuTTY command window of the *Cinterion PH8 HSPA USB Com Port* and enter: at^sgpsc="Engine",1

In the PuTTY command window of the *Cinterion PH8 HSPA USB Com Port* the GPS data is listed.

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Last Modification: 28 October 2016

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gory:		
Session	Options controlling local serial lines	
Teminal	Select a serial line	\frown
- Keyboard	Serial line to connect to	Сомв
- Bell	Configure the serial line	\sim
Window	Speed (baud)	115200
- Appearance	Data bits	8
Translation	Stop bits	1
··· Selection	Parity	None
Colours	Long Long	
Data	riow control	None •
- Proxy		
- Telnet		
IN SSH		
Serial		

