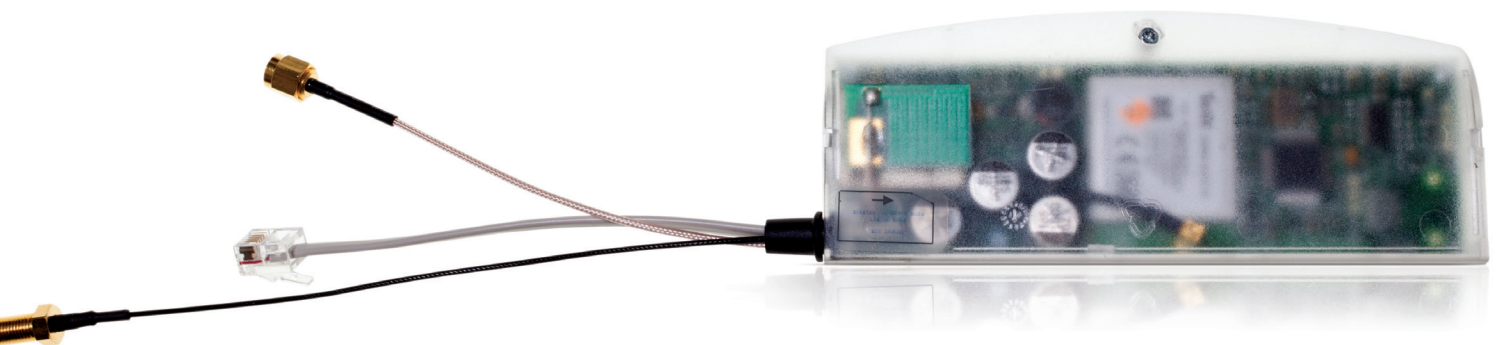




# ELSTER A1120/1140 BESPOKE CSD/GPRS/SMS GSM WIRELESS MODEM

A third generation high speed telemetry modem  
for use on public mobile telephone networks.



## EASY TO INSTALL INTELLIGENT NETWORK WATCHDOG REMOTE CONFIGURATION AND DIAGNOSTICS TO MINIMISE SITE VISITS

- Modem compatible communications data rates up to 9600bps
- Error correction including V110 (for ISDN/GSM connected host)
- IP connectivity for AMR using low cost GPRS services
- SMS AMR capability with programmable read time and remote diagnostics
- Industry standard RJ12 plug interface via fly lead
- Host powered
- Standby mode with current drain of <50mW
- Typical average operating power of <500mW
- Local or remote antenna
- RS232/ RS485 multi-drop option.

The Elster A1120/1140 bespoke GPRS/GSM/SMS wireless modem is a new member of ASLH's well established and proven range of Delta Plus telemetry modems designed to complement Elster's new A1120 / 1140 meter range.

The Elster A1120/1140 bespoke GPRS/GSM/SMS wireless modem allows access to remote data via the public mobile telephone networks.

For maximum compatibility and ease of use the unit has been designed to operate like a normal modem. There is no need to understand additional GSM network specific operations. Even when operating in GPRS mode, once installed, it acts like a normal IP connection.

To reduce transmission times, the Elster A1120/1140 bespoke GPRS/GSM/SMS wireless modem can be used in V110 mode making and receiving calls to and from hosts connected using ISDN or GSM rather than standard telephone modems.

SMS AMR is also supported for NHH metering with programmable host, read interval and remote read requests all supported.

A suitable antenna can be fitted to the unit's flying lead or mounted remotely via an extension cable if required. Also internal PCB antenna option available.

Naturally, the Elster A1120/A1140 bespoke GPRS/GSM/SMS wireless modem includes an intelligent watchdog to monitor the state of the wireless modem for instances such as brown out detection to maximise high reliability of operation.

# SPECIFICATION

<b>Data rates &amp; standards</b>	V22 (1200bps), V22bis (2400bps), V32 (9600bps)
<b>GPRS Protocol</b>	Supports TCP/IP stack Class 10, and ASL high efficiency telemetry protocols (ATP)
<b>Network compatibility</b>	Quad band for use on GSM and GPRS (Class B 4+1) networks at 850/900/1800/1900MHz
<b>SMS Protocol</b>	Standard text and PDU modes supported
<b>SIM card</b>	Secure mounting with external access, push-push style holder
<b>Error Correction/ Data Compression</b>	V42, V42bis standards for modem and V110 for ISDN and GSM hosted applications
<b>Power supply</b>	Powered from the host data port. +6V to +14 V dc
<b>Enclosure</b>	Custom moulded plastic housing, size - 161x65x36mm
<b>Weight</b>	90g
<b>Connectivity</b>	A1120/A1140 compatible RJ12 fly lead for data and power to meter
<b>Operational status LEDs</b>	Green, Red & Yellow (see full technical user guide for operational use)
<b>Environmental conditions</b>	-20 to +55°C operating; -20 to +70°C storage. Humidity 0-95% non-condensing
<b>Control of functions</b>	By 'AT' compatible command subset
<b>Auto dial/answer</b>	Under 'AT' command control. Auto answer with Call Indicate
<b>Antenna connector</b>	SMA bulkhead connector on 160mm flying lead. (PCB antenna option available)
<b>Remote configuration</b>	By the use of Hyper Terminal or any suitable terminal emulation package for access
<b>Approvals</b>	The product conforms to : 3GPP TS 51.010-1, EN60950, R&TTE directive 99/5/EC EMC Directive 89/336/EEC & Low Voltage Directive 73/23/EEC
<b>Options</b>	Multidrop by optional RS232 "Elster" mode or standard RS485 interface. Optional internal printed circuit antenna available.
<b>Additional services</b>	For more communications options see the separate data sheets for the other communications modules that are in the Delta Plus family. ASLH is also able to offer modems with customized configurations, tailored to specific customer's requirements as well as fully custom communications products. Please enquire for full details.

ASLH's policy is to upgrade and improve its products. The right is reserved to change these specifications without notice. ASLH308 May/12

