

HF Fax & Data Interface 9001

The 9001 provides a fast, reliable and cost-effective facsimile and data communication capability for organisations operating in areas with little or no telecommunications infrastructure.

KEY FEATURES

Easy to use

The 9001 provides full automatic fax capabilities and can be used with all modern (group 3) fax machines, making it ideal for the non-computer user.

High speed

Highly sophisticated signalling technology enables optimum HF performance. On a good HF circuit, a page of text or drawings can be sent in as little as two minutes; in poor conditions, transmissions may average up to five minutes a page.

Error-free

The 9001 HF protocol combines with advanced error control techniques to guarantee error-free fax transmissions.

Cost-effective

Because HF transmissions are free to air, faxes and data can be sent without any of the expensive call charges associated with satellite systems.

CALM and ALE ready

When a Codan transceiver is equipped with Codan Automated Link Management (CALM) or Automatic Link Establishment (ALE), the 9001 will provide automatic channel selection prior to sending a fax.

ADDITIONAL FEATURES

Addressing modes

The 9001 can be used for selective, group or broadcast transmissions.

Selective mode is used for point-to-point communication with a single station.

Group mode can send fax or data to up to 99 specified stations.

Broadcast mode can transmit to all stations listening on a selected channel.

Error-free transmission is guaranteed for selective mode but not for group or broadcast modes in difficult transmission conditions.

Data and fax transmission

By adding an IBM compatible computer, the 9102 controller software supplied with the 9001 can be used to transmit and receive computer text and files at a rate of up to 6,000 bps.

Indicators

Front panel indicators show the current operating state of the HF link and the fax machine interface.

Fax-only operation

All 9001 fax operations can be set up and controlled from the front panel of the fax machine. No computer is needed for fax-only operation.

Robust and reliable

All Codan equipment is built to survive in extreme conditions and comes with full product support. A three-year warranty is available to every registered user.

HOW IT WORKS

The 9001 interfaces directly with a data-capable HF SSB transceiver (see details under *Associated equipment*) and a standard group 3 fax machine.

The 9001 acts as a "store and forward" fax system—the attached fax machine is used to send a fax to the 9001 unit where it is stored before being transmitted to the dialled remote destination address. Once the fax has been correctly received and decoded by the remote station, a report confirming the transmission is printed on the local fax machine. Alternatively, a printer may be attached to the 9001 for report printing.

At the receiving station, the 9001 stores the entire fax before transferring it to the attached fax machine for printing.

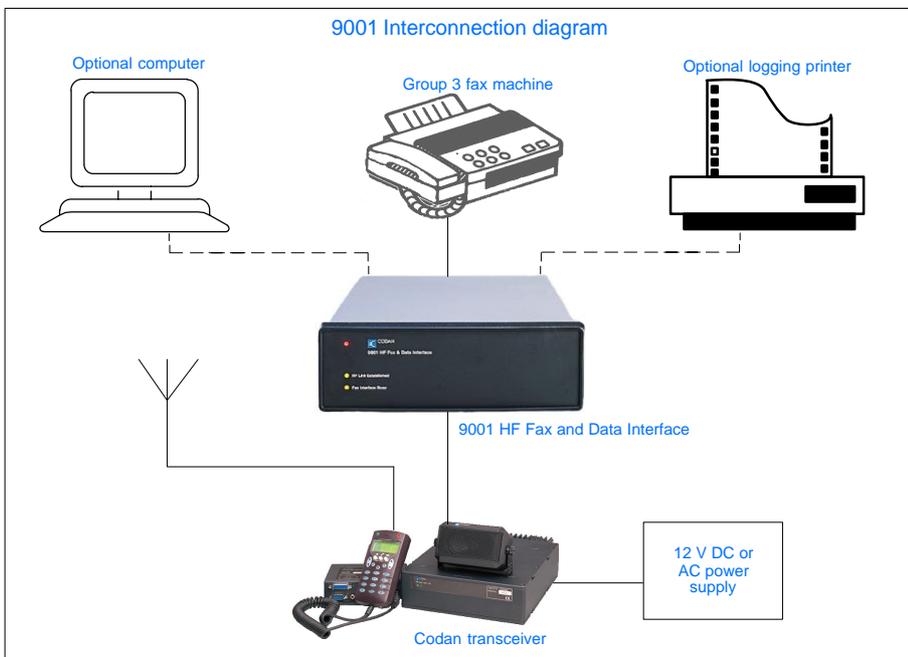
WHO CAN USE IT

The 9001 is ideal for fixed base stations in remote areas that are required to send and receive hard copy information such as administrative paperwork, payrolls, transport manifests or drawings.

It is particularly applicable for situations where users may have little or no computer skills, or where users require a mobile fax capability.



9001 Fax and Data Interface with fax machine and NGT



SPECIFICATIONS

High-speed data mode	Selective repeat ARQ Protocol 2400 bps – 16 channel QPSK modulation
Link establishment mode	Proprietary link establishment 80 baud CHIRP
Rate of data transfer	Up to 6000 bps (compressed) Up to 1475 bps (uncompressed)
Fax interfaces	FCC-68 jack CCITT group 3 fax interface 9600 baud V.29, V.27 ter, V.21 channel 2 Internally generated line and ring tones Tone or pulse dialling
Printer interface	Centronics parallel printer port
Transceiver interface	Maximum frequency offset error ± 100 Hz Audio passband 500–2500 Hz ± 1 dB ALC: Long time constant; peak limiting
Primary power	12 V DC nominal (750 mA) 9–16 V DC operating range
Temperature	0°C to +55°C (–30°C to +55°C optional)
Size and weight	250 mm W x 350 mm D x 80 mm H (including rear connectors); 3 kg

Associated equipment

HF SSB Transceiver	For fixed or mobile stations: Codan NGT AR/NGT SR with Option F Codan 9323/9360/9390 with Option F
FED-STD-1045 ALE	Option CALM for NGT series transceiver Codan 9600 ALE Controller (not required with NGT)
Remote Control	Codan 8570 Remote Control Console Codan 8571 Remote Control Interface

Equipment descriptions and specifications are subject to change without notice or obligation

