

# Nomada IP W

Portable AudioCodec for IP, 3G/3.5G, ISDN and PSTN

**Nomada IP W** is a new full-duplex, two channels (Program & talkback) audio codec. Its new design, robust, compact and with a flat control surface, prevents accidental damage to the controls and makes it easier to use. It is a portable audio codec with all ProntoNet functionality built-in. It comes fitted with a built-in channel mixer to route and mix both inputs and outputs signals. All audio and communication parameters, including input/output signals and levels, are remotely configurable and can be stored in different presets to make setup of the unit by non technical staff easy.



## Key Features:

### Audio

- Built-in channel mixer for both input and output signals:
  - 2 Mic/Line inputs + 1 Line input.
  - 2 headphone outputs & 2 auxiliary line outputs.
- Compressor/limiter for Program Channel.
- Configuration presets to define different configurations for all or some specific parameters.
- Full control (local & remote) of audio levels & I/O signal routing, using cross-point audio matrix.
- Tx/Rx audio level balance control.

### Communic.

- IP, 3G/3.5G (optional), PSTN, and ISDN (optional) communications.
- BackUp System: ISDN as a secondary link for IP.
- Meets EBU N/ACIP initial standard for IP compatibility: SIP/SAP/SDP/RTP.
- Dual operation over IP and ISDN: Program and Talkback lines.
- Easy configuration to optimize IP link for low delay, jitter and utilization.
- FEC (Forward Error Correction) and 'Error Concealment' to eliminate the impact of packet losses.
- Prodys NAT Traversal Streaming Protocol permits router firewall pass-through with zero configuration.

### Operation

- Can be controlled locally from its front panel, or remotely from its Web Page or from ProdysControl.
- Automatic detection of the encoding mode and independent encoder/decoder operation.
- Alarm management via SNMP/GPO/email.
- Call facilities: Auto-redial, phone book, call scheduler and log systems.
- Optional battery with charge and status indications. It can be charged on system.
- User Access Control to define different access restrictions in a per user basis.

## Specifications:

### 2 Mic/Line + 1 Line input:

- Connectors: XLR (Mic/Line)
- Electronically balanced inputs.
- Independent Level Control (local or remote).
- 48 V Phantom powered.

### 2 Headphone stereo outputs:

- 6,35mm jack connectors.
- Independent level control.
- User configurable.
- Tx/Rx audio level balance control.

### 2 AUX outputs:

- XLR connectors.
- User configurable.

### Audio compression

- G722
- G711 A/μ Law
- MPEG 1,2 Layer II
- MPEG 1,2 Layer III
- MPEG AAC LC, LD & HE (optional)
- Enhanced and Standard apt-X™ (optional)
- PCM (16,20 & 24 bits)

### Dimensions and Weight

- Width: 240 mm Height: 75 mm; Depth: 205 mm.
- Weight: 2 Kg.

### LAN

- 10/100BaseTx Ethernet, connector RJ45.
- Fully supports standard TCP/UDP/IP Multicast, Unicast & Multi-Unicast (optional).
- SNMP, DNS, RIP, SNT, HTTP, IGMP, ICMP, STUN, VLAN.
- SIP/SAP/SDP/RTP comprising EBU N/ACIP standard.
- FEC: Forward Error Correction.
- Prodys NAT Traversal Streaming Protocol.

### 3G/3.5G (optional)

- Streaming over 3G/3.5G networks via USB modem.

### ISDN (optional)

- 1-BRI with S/T and U interfaces, RJ45 connector.
- BackUp system: ISDN as a BackUp for IP link.
- Protocols: EURO\_ISDN, AT5ESS, DMS100 & NAT1.

### GPIO & RS232 Ports

- 2 Contact closure Inputs and 2 Relay Outputs.
- User configurable GPIO: Remote contact closures.
- 1 serial port (DB9F connector).
- Bit rate up to 9600 bps (115200 bps in burst mode).
- Tx and Rx of ancillary data along with the audio.

### External Power Supply & Battery

- Input: 100-240VAC, 1.2A / Output: 16VDC, 2.8 A
- Li-Pol battery pack (optional)